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AT

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
FOOD AND DRUG ADMINISTRATION

INTERNATIONAL CONFERENCE ON HARMONIZATION  
PUBLIC MEETING

Tuesday, January 21, 2003

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P R O C E E D I N G S

**Introductory Remarks**

ANQUEZ: Good morning, everyone. I think we will go ahead and get started. I hope everybody got handouts around the table.

I am Christelle Anquez. I work at the Office of International Programs, Office of the Commissioner, and I am assisting Janet Showalter, the ICH coordinator for the FDA on this program. Janet was the moderator for this public meeting but, unfortunately, she was called back for a family emergency this morning. So, I will be replacing her until she comes.

I am delighted to welcome you this morning to the FDA. This is our public meeting on ICH that we routinely have before each ICH meeting. The next ICH meeting will be in February, in Tokyo.

It is really a two-purpose meeting. One, it is to give us the opportunity to provide you with an update on the topics underway in ICH and also, most of all for you, the opportunity for you to give us your input.

1           We will be providing an official  
2 transcript of this public meeting that will be  
3 available on the FDA website shortly. We will do a  
4 few presentations and then we will open the floor  
5 for you to ask questions and comment. If you want  
6 to ask a question, I will ask you to introduce  
7 yourself for the transcript.

8           We will start by an overview on ICH. Then  
9 we will give you the CTD implementation status and  
10 follow-up with an update on the preliminary concept  
11 paper on the clinical evaluation of QT interval  
12 prolongation. Then we will address the  
13 pharmacovigilance topics underway, and pursue that  
14 with an update on gene therapy and, lastly,  
15 Patrick, from MSSO/TRW, will give you an update on  
16 the MedDRA amendments. Justina?

17                           **ICH General Overview**

18           MOLZON: Since Christelle is pinch-hitting  
19 for Janet I am pitch-hitting for Christelle.

20           I think we give this at every meeting, it  
21 is just a basic overview of how ICH works, the  
22 structure and harmonization process.

1 [Slide]

2 This is basically geared for someone that  
3 has never heard about this before so I am going to  
4 flip through this quickly. If anyone in the  
5 audience has any questions, just let me know.

6 [Slide]

7 ICH stands for the International  
8 Conference on Harmonization of Technical  
9 Requirements for the Registration of  
10 Pharmaceuticals for Human Use. The key here is to  
11 realize we have never agreed on how to spell  
12 harmonization. We spell it with a "z" instead of  
13 an "s" and it is the technology requirements for  
14 the registration of pharmaceuticals. So, that sort  
15 of describes the group of products it addresses,  
16 and the technology requirements are addressed via  
17 guidances.

18 [Slide]

19 It is a unique approach. It is an  
20 agreement between the European Union, Japan and the  
21 United States to take action on harmonization. The  
22 unique portion of this is a joint initiative

1 involving regulators as well as industry as equal  
2 partners in these technical discussions. This  
3 started in 1990 and it was the first time we  
4 actually sat down with industry at a table to come  
5 up with a variety of technical guidelines. During  
6 the past twelve or thirteen years, I would dare  
7 say, our relationships have shifted. We actually  
8 get along quite well during these discussions and  
9 have accomplished quite a lot. I have always  
10 maintained that it is because of ICH that we  
11 actually ended up with PDUFA funding because  
12 everyone realized how well we could work together  
13 and accomplish common goals.

14 [Slide]

15 ICH started in April, 1990 in the EFPIA  
16 offices in Brussels. It was just an idea that  
17 people had and they got together to plan an  
18 international conference. It was going to be one  
19 conference. That is why it is called the  
20 International Conference for Harmonization. One  
21 conference has now led to thirteen years of work.  
22 It established the terms of reference and method of

1 working.

2 [Slide]

3 The objectives of ICH are to identify and  
4 eliminate the need to duplicate studies to meet  
5 different regulatory requirements. This would  
6 provide for more efficient use of resources in  
7 terms of human clinical studies, animal studies and  
8 materials. So, the result of ICH would be to save  
9 some of these resources. The bottom line is  
10 quicker access to patients of safe and effective  
11 new medicines.

12 [Slide]

13 This is just a description of how ICH  
14 basically works. It is three regions and six  
15 parties. For Europe it is the European Union, the  
16 Commission and representatives from the IFPMA and  
17 EFPIA. For Japan it is the Ministry of Health,  
18 Labor and Welfare and JPMA. For the U.S., it is  
19 the FDA and PhRMA.

20 I should also mention that there are  
21 observers to the group. WHO has an observership.  
22 So does Canada and so does EFTA, the European Free

1 Trade Area. Essentially, the only country left in  
2 EFTA is Switzerland so the Swiss are also at the  
3 table.

4 [Slide]

5 ICH is organized into an administrative  
6 portion and a technical portion. The  
7 administrative portion is the steering committee  
8 which involves the ICH coordinators. There is a  
9 coordinator for each region, and also the  
10 secretariat and steering committee members from  
11 each of the regions representing the various  
12 groups. I represent the Center for Drugs on the  
13 steering committee.

14 Then, there are technical expert working  
15 groups which tackle a variety of topics that the  
16 steering committee feels are worth the effort; can  
17 actually reach consensus. There are lots of topics  
18 that are so contentious we have never taken them up  
19 because we just figured out that we could never  
20 reach consensus. So, the steering committee sort  
21 of drives the process.

22 [Slide]



1           As I already said, there are two members  
2 from each of the six parties on this ICH  
3 secretariat. The EFPIA, based in Geneva, acts as  
4 the secretariat. There are observers from Canada,  
5 EFTA and WHO.

6           [Slide]

7           This is a picture of the expert working  
8 groups. The safety group deals with the  
9 preclinical topics. The efficacy group deals with  
10 the clinical topics. The quality groups would deal  
11 with the CMC topics, and regulatory communications  
12 are sort of the miscellaneous category. It is  
13 MedDRA, the electronic topics. There is an EWG for  
14 each topic with six topic leaders, one from each  
15 party. The role, of course, is do develop  
16 consensus on these technical issues.

17          [Slide]

18          This is the website for CDER's guidances.  
19 CBER also has a guidance section but they are in  
20 chronological order so I have always found it sort  
21 of difficult to figure out how to find something.  
22 The guidances in CDER are grouped under ICH, under

1 the safety, efficacy, quality and miscellaneous  
2 section, if you are looking for copies of past  
3 guidances or new topics that are draft guidances.

4 [Slide]

5 This describes the step process in ICH.  
6 So, we start with a concept paper where we build  
7 scientific consensus. When that is agreed to, it  
8 is signed off by the steering committee and  
9 released into the regions for consultation. For  
10 us, that means posting it in the Federal Register  
11 or putting a notice in the Federal Register and  
12 posting it on the CDER website. We collect the  
13 comments. We then go back in ICH and agree on a  
14 finalized document. It is adopted by the  
15 regulators, EU, Japan, U.S., Canada and  
16 Switzerland, and then it is implemented in the  
17 three regions and, for us, this means it is a  
18 guidance. This is different than what the other  
19 regions do. In the other regions it is mandatory;  
20 it is put into their legislation.

21 For the U.S. it is a guidance so it is not  
22 mandatory. Thankfully, even though this process

1 was established in 1990, it still meets our good  
2 guidance practices. There is actually a little  
3 paragraph in good guidance practices, the final  
4 rule that is published, that sort of explains how  
5 ICH fits into this. So, that was very helpful  
6 because I am not sure how we could have adapted the  
7 ICH process to meet our new requirements.

8 [Slide]

9 In an effort to be transparent, there has  
10 always been a series of conferences. As I said,  
11 the very first conference was in 1991 and they  
12 thought that was going to be it; there was going to  
13 be one conference. But then, every two or three  
14 years we have another conference and the point is  
15 to share the work that has been done with the rest  
16 of the world. This is probably one of the main  
17 criticisms of ICH, that it is a closed club; it  
18 excludes these developing countries, but when it  
19 was first established there was an agreement  
20 between Japan, U.S. and Europe and that represented  
21 95 percent of all R&D that took place, and that was  
22 in 1990.

1           The other thing is that that is where the  
2 R&D took place and that is also where there were  
3 strong pharmaceutical manufacturers associations.  
4 So, in order to be successful in ICH, you have to  
5 have a country with a strong R&D presence and also  
6 a strong industry. We have lots of requests from  
7 other countries to participate but they don't meet  
8 those criteria. So, we have to always explain to  
9 people, you know, how it was set up and why it is  
10 limited to the three main regions.

11           For the conferences we basically take  
12 turns hosting them. The first one was in Brussels.  
13 Then it was the U.S.'s turn and it was in Orlando;  
14 then Japan, Yokohama. The fourth conference was in  
15 Brussels and then it was our turn again to host in  
16 2000 and that is when we unveiled the Common  
17 Technical Document, which I will be talking about  
18 after this. Then, a sixth conference is planned  
19 for Osaka in 2003. I believe it is in November.  
20 There are blue sheets of paper on the side  
21 announcing the next meeting.

22           Does anyone have any questions on just the

1 general ICH operations?

2 [No response]

3 **CTD Implementation Status**

4 **FDA Perspective**

5 [Slide]

6 Now I am going to talk about the Common  
7 Technical Document. I have been giving this speech  
8 basically since November of 2000, after the topics  
9 came out of the San Diego meetings for ICH-5. I  
10 keep building and building to show the progress of  
11 the topic. When you think about it, it has only  
12 been two years since the documents were signed off  
13 and I think we have done extraordinarily well  
14 considering some of the circumstances I am going to  
15 be talking about.

16 [Slide]

17 As I said, it was finalized at ICH-5, and  
18 it was November 9th through 11th in San Diego. The  
19 way this worked was that at the beginning of the  
20 week we had our ICH meetings and then the actual  
21 ICH-5 meeting was Thursday and Friday or Wednesday  
22 and Thursday, I can't remember at this point. But,

1 basically, three groups were working very hard, the  
2 safety, efficacy and quality groups, to get these  
3 documents finished. They were sort of in  
4 isolation. Then we threw everything on a CD and  
5 burned it for the participants to receive at the  
6 meeting.

7       . When we were looking at the final product  
8 we realized we had to really edit it for  
9 consistency in terms of the numbering system, the  
10 style and the format. Each of the groups had used  
11 a different system so when you put the whole  
12 document together, which is what the companies are  
13 going to be looking at, it was confusing. So, we  
14 realized this and we decided that we had a large  
15 task trying to make them consistent. But it was  
16 only when we looked at this altogether that we  
17 realized how complicated these were. When you  
18 consider that regulators have different systems,  
19 this adds another level of complexity. The truth  
20 is, no matter how closely we work together, we are  
21 still going to have some minor inconsistencies just  
22 because of the way the different systems work.

1 [Slide]

2 But we want this to be the best it can be  
3 an and, as I mentioned before, my favorite  
4 inconsistency is that we never actually agreed on  
5 how to spell "harmonization." It doesn't mean we  
6 are not working towards harmonization; it is just a  
7 little, minor inconsistency.

8 [Slide]

9 These complications and minor  
10 inconsistencies don't really detract from the  
11 enormous amount of work that has been done.  
12 Industry put a lot of work into this at the very  
13 beginning to convince the ICH steering committee to  
14 actually accept the topic, and everyone has just  
15 been working very, very hard and we really want the  
16 CTD to be the best it can be, as I have already  
17 said. So, we are working to do away with these  
18 ambiguities and inconsistencies and this is an  
19 evolving process.

20 [Slide]

21 As an example of how the process has  
22 evolved, this was the very first triangle which is

1 very basic. We published this and then we  
2 realized, from a variety of meetings with DIA and  
3 other programs, that we knew that we wanted this  
4 layering effect but people were interpreting it as  
5 a silo, a stacking process. So, that was one thing  
6 that we didn't realize because we were so involved  
7 in the process. Of course, you know, if there is  
8 overview you have this layer and then you go to  
9 these summaries.

10 [Slide]

11 Well, because of the meetings we have had  
12 with people, we realized that we had to be more  
13 elaborate in how we described this so we actually  
14 added some numbers to explain the process and how  
15 they are put together. You know, for a company  
16 that has a document that they have to assemble this  
17 is very important information. So, it was only  
18 after the documents came out that we realized that  
19 we had to address some of these issues, but this is  
20 an example of how the document has evolved.

21 [Slide]

22 Practically, we had to work with other



1 regions because we couldn't just unilaterally make  
2 a decision. We couldn't decide to add the numbers  
3 and not have Europe and Japan do the same thing.  
4 So, you know, we had to work with the regions. But  
5 a lot of this experience comes with experience with  
6 the actual documents. We have basically just  
7 established a table of contents. We need to see,  
8 you know, real documents to see how this all fits  
9 together.

10 As I have already mentioned, meetings with  
11 industry have definitely helped in pointing out  
12 areas where we can improve. The more submissions  
13 we get in, the more familiar we will become with  
14 the documents and we will have a better idea how it  
15 all fits together. This is one of the reasons that  
16 the voluntary submission phase was extended from  
17 July, 2002 to this July of 2003. If we hadn't  
18 extended it, this would all be over and everyone  
19 would be using it but there would be, you know,  
20 rapid confusion.

21 [Slide]

22 The first major source of confusion in the

1 CTD is it is not a "global dossier." The content  
2 is different for the U.S., the EU and Japan based  
3 on individual regulations. Some regulations have  
4 never been covered in ICH. They have been too  
5 contentious; they have never even been presented.  
6 A lot of these are chemistry topics. We have  
7 different requirements for some of the chemistry  
8 submissions. Those requirements have not changed.  
9 All the CTD is, is a common format and it is a  
10 modular presentation of summaries, reports and  
11 data. So, it is just a table of contents. So, it  
12 is a heading and different countries are going to  
13 have different amounts of information under each of  
14 those headings. So, the document in Japan, I  
15 daresay, would be the smallest of the group. It  
16 would have the same headings but a different amount  
17 of information. Then the European Union would be a  
18 little larger and then the U.S. would be larger  
19 because we are still asking for a lot more data.  
20 But the headings would all be the same. There  
21 would just be different information under those  
22 headings.

1           What the CTD does is incorporate the  
2 relevant ICH guidelines. There are about fifty  
3 guidelines and it incorporates the guidelines into  
4 a common structure. So, if you picture those  
5 guidelines as building blocks, all we did was  
6 arrange those guidelines in the same order, and  
7 this is what industry wanted us to do. They wanted  
8 to have a common format so they didn't have to  
9 assemble something for the European Union,  
10 disassemble it and put it back together for the  
11 U.S. and vice versa. So, all this did was to  
12 provide for a common format and industry, as I  
13 said, asked ICH to take this up. So, it was never  
14 intended to be a global dossier. It is just a  
15 common format to help with assembling the  
16 documents.

17           [Slide]

18           To help with the process of helping people  
19 understand how this all fits together, the ICH has  
20 established sort of a mailbox to ask questions. It  
21 can be general questions; questions on safety,  
22 efficacy or quality. These questions are opened

1 right before an ICH meeting and then they are  
2 reviewed at the ICH meeting so there is a consensus  
3 opinion. It wouldn't help if each region had a  
4 different answer so we try to reach consensus  
5 answers to these questions.

6 The questions I am going to talk about  
7 next came out of the September meetings we had  
8 here, in Washington, D.C. The first question,  
9 number one, will a dossier using the CTD format,  
10 module 2 to 5, be identical for all regions? The  
11 answer is not necessarily.

12 [Slide]

13 To elaborate on the answer, the CTD  
14 provides a common format for the submission of  
15 information to regulatory authorities in the three  
16 ICH regions. However, the CTD does not address the  
17 content of the submissions. In terms of regional  
18 requirements, we have different requirements, as I  
19 said, for chemistry and various areas, and also the  
20 applicant's preferences. The applicant may not  
21 want to have the same indication or the same dosage  
22 form for some reason in one country versus the

1 other. So, the applicant has to have the  
2 flexibility to adjust the CTD to suit their needs  
3 for that market.

4 Some people have been brought into the ICH  
5 process late. Now the regulatory affairs people  
6 have to assemble these documents and they don't  
7 actually have an understanding of the entire  
8 purpose here and they think they should just have  
9 to do one application and give it to everybody.  
10 But that is not what this was intended to do.

11 [Slide]

12 We posted a guidance, a general  
13 considerations guidance on submitting marketing  
14 applications according to the ICH CTD format back  
15 in September of 2001. It had a common period that  
16 is well over but we still encourage people to still  
17 submit things to the docket, and these meetings  
18 help with that. As people are actually working  
19 with the documents, they have real questions now.  
20 Before they were just hypothetical "what about  
21 this; what about that?" People have real questions  
22 now. We will be working on a revision to this

1 document which will be out, hopefully, before July  
2 of this year. We have been collecting all these  
3 comments and we have to modify the document a  
4 little bit; not a lot but just, you know, to verify  
5 some of the questions.

6 As an example, in module 1 we are now  
7 suggesting that the risk management plan be put  
8 into module 1. The risk management plans weren't  
9 even around in November of 2000 when the document  
10 was signed off on. So, as things have evolved, we  
11 are going to have to add things to module 1 and  
12 clarify some of the different examples.

13 [Slide]

14 The general considerations document  
15 guidance basically explains what we want to be  
16 submitted. It gives a nice description of module 1  
17 which is region specific. It generally contains  
18 labeling. I always forget the number but it is  
19 basically the form that you file; it is a lot of  
20 that information and that is the regional  
21 information. It is administrative and prescribing  
22 information. The general considerations guidance

1 also gives a physical description of the  
2 submission. It addresses the CTD requirements. It  
3 talks about obsolete guidances; the logistics and  
4 the time frame for a submission.

5 [Slide]

6 The general considerations guidance  
7 describes the organization provided entirely on  
8 paper, but because we also have an ANDA initiative  
9 underway we didn't want companies to go backwards,  
10 so it also talks about how to adapt the CTD to our  
11 current process for electronic submissions. So,  
12 you can provide the documents electronically. This  
13 is in the PDF format. This is different than what  
14 Jon is going to be talking about, the eCTD, which  
15 is an XML process.

16 [Slide]

17 We also posted the documents in the U.S.  
18 guidance format. These were posted on October 15,  
19 2001. We kept them in the review discipline format  
20 for ease of printing and navigating. We have the  
21 safety, efficacy and quality topics. At some point  
22 down the road I think all the regions are going to

1 try and come up with one document top to bottom,  
2 but to help people in this transition phase we  
3 thought keeping them in the review discipline would  
4 be helpful. We actually split the safety  
5 appendices off because they were huge documents.  
6 We posted them in Word so companies could just  
7 populate the tables with data; they wouldn't have  
8 to go and recreate those.

9 [Slide]

10 This is just a list of how the documents  
11 were published, and they are posted on the CDER  
12 web.

13 [Slide]

14 This is the part that changes every time I  
15 give this presentation. So far, we have had eleven  
16 submissions in CTD format and we have actually had  
17 one that just came in that is not included in this.  
18 It is, I believe, the first complete CTD in paper,  
19 which is good for me because I am sitting with the  
20 medical officer and providing hands-on training.  
21 It is good for me to see what this actually looks  
22 like because up to this point all I have been doing



1 is reviewing CTD table of content submissions at  
2 the pre-submission meetings. So, I have never seen  
3 a real CTD, and I believe we only have one in-house  
4 right now.

5           So, there have been eleven  
6 submissions--twelve if you count the one that just  
7 came in--in CTD format. They have gone to seven  
8 different review divisions. All five offices, ODE  
9 one through five, have had experience. These were  
10 attempts by industry to just get their feet wet.  
11 So, there were several CTDs for new dosage forms;  
12 hybrid submissions where just the safety  
13 information was provided or just the quality  
14 information was provided. We have had paper and  
15 electronic submissions. The one that came in is a  
16 CTD for a new molecular entity. So, it is very  
17 good to have one to actually look at before the  
18 next meetings in Tokyo because amongst the  
19 regulators we talk about this so everyone has an  
20 idea of what this actually looks like because we  
21 don't actually write submissions; we receive  
22 submissions.

1 [Slide]

2 Then I have just a series of examples that  
3 I will go through quickly to give you some examples  
4 of what we have received. The first one we  
5 received was on August 1 of 2001. It was just the  
6 pharmtox section submitted electronically, and this  
7 was for a fast track rolling submission. This  
8 surprised me because I thought, you know, the  
9 pharmtox had already been done a while ago. It was  
10 in a bunch of boxes perhaps and they would have to  
11 reformat it for the submission. So, I was very  
12 pleased to see that. So, we had a pharmtox  
13 section.

14 [Slide]

15 This example is actually the World Health  
16 Organization. I can say that because they issued a  
17 press release. It is for an antimalarial. What  
18 they did, they used the CTD table of contents as it  
19 was before it was signed off. So, it wasn't even  
20 the final document so that is why the structure  
21 wasn't quite as was recommended but it was close.  
22 But here is the World Health Organization that has

1 never done an application in their life and they  
2 are stepping up to the plate to help.

3 [Slide]

4 This is an example of a different dosage  
5 form to basically and ophthalmic product. The  
6 pharmtox submission was in the CTD format in both  
7 paper and electronics. Some companies are doing  
8 paper and electronic. It is interesting to see how  
9 they were submitting.

10 [Slide]

11 Here is one for the chemistry section.  
12 The chemistry section was submitted on paper but  
13 the electronic sections were just in the old  
14 format. So, companies were doing whatever they  
15 felt comfortable with to submit this information.  
16 I am grateful for that because otherwise all of  
17 this would be taking place in a vacuum. We really  
18 need companies to step up to the plate and try and  
19 work through these documents so we have a better  
20 understanding of how they all fit together.

21 [Slide]

22 The good news is there were no refuse to

1 files. These documents weren't perfect but they  
2 could be reviewed. When you think about it, we  
3 will get an application from Merck or Lilly or  
4 other companies and a reviewer will work on the  
5 Merck application for a while and get that finished  
6 quickly, and then move to the Lilly one and it is a  
7 completely different application. They are just  
8 set up completely differently. So, down time, the  
9 learning curve that is required to jump from one  
10 application, from one company to the next, is  
11 nothing more than going from reviewers who are  
12 normally seeing submissions from various companies  
13 going to the CTD. So, it is not that big a  
14 transition. The medical reviewers that I have  
15 talked to don't think this is a big deal. They  
16 just find the data and then they do what they are  
17 supposed to. So, I have not received any comment  
18 about this being way different than what they  
19 normally do; more difficult, or anything else.  
20 They can be reviewed and that is what the reviewers  
21 are used to doing.

22 We are being flexible during this

1 volunteer submission phase which lasts through July  
2 of this year. In July the CTD format will become  
3 mandatory in the European Union and Japan, and  
4 highly recommended in the U.S. It is highly  
5 recommended because these are guidances. That is  
6 the strongest wording we can use. We fully  
7 anticipate that this will be the format that the  
8 documents will be coming in, but we can't say that  
9 it is required because these documents are a  
10 guidance and not regulations and companies are  
11 having a hard time figuring this out. They say,  
12 "we don't have to do it." I say, "well, if you're  
13 going to be submitting it to the European Union,  
14 why wouldn't you do it?" So, I don't understand  
15 why some people are really hung up on this. It is  
16 what we anticipate seeing after July.

17           Once we get more applications in, we are  
18 going to provide further training based on  
19 practical experience. I am sitting with people in  
20 the pre-submission meetings. I talk to the  
21 companies off-line because they don't want the CTD  
22 to get bad publicity in meetings with all these

1 scientists at the pre-submission meetings. I also  
2 don't want to take up the time that the companies  
3 have for scientific discussion. So, I usually give  
4 some general information; I provide a copy of some  
5 of my presentations and then I talk with the CSO  
6 and the company and just make sure they understand  
7 how this works. We often do that with the  
8 electronic submissions. We just have the  
9 electronic submission people from the companies  
10 talk to our electronic submission group because you  
11 don't want to take up a lot of time in the  
12 pre-submission meetings because you only get about  
13 an hour or an hour and a half to meet with the  
14 division.

15           Once we get more applications in, we will  
16 have training based on practical experience. The  
17 reviewers that work on the documents are going to  
18 be the ones that are providing the training so that  
19 will just really provide much better experience  
20 because you cannot provide training about this  
21 until you have actually dealt with one because it  
22 just goes right over your head and you don't pay

1 attention. So, I encourage everyone to submit  
2 documents in the CTD format before July so you can  
3 get your feet wet before it is required in the EU  
4 and Japan and is highly recommended in the U.S. Up  
5 until 2003 hybrids are acceptable. After 2003, I  
6 don't believe we are going to be accepting hybrids  
7 and that will be put into the general  
8 considerations document but, because these aren't  
9 required, it still might be possible. We have to  
10 work this through.

11 [Slide]

12 Based on my CTD pre-submission experience,  
13 I basically sit and go through all the tables of  
14 contents that are submitted. It is very important  
15 that the submission exactly match the Common  
16 Technical Document. In the table of contents,  
17 don't go and create different headings or a  
18 different numbering structure. Don't drop down to  
19 lower levels. You can do that in your document but  
20 not in the table of contents because the table of  
21 contents is what is matched to the XML version of  
22 the eCTD so you are doing yourself a disservice if

1 you are setting up a structure that will have to be  
2 redone when you go to the eCTD. So, provide all  
3 information under the CTD ICH negotiated headings  
4 and numbers; don't change them and don't create new  
5 headings or numbers.

6 [Slide]

7 This was just an example where a company  
8 actually broke things down into smaller portions  
9 and changed the numbering system right in the table  
10 of contents. You can use sub-headers or bullets if  
11 you want in that table of contents if you think it  
12 would be clearer, but don't use a different  
13 numbering system. You can always use a more  
14 detailed numbering system within the document  
15 itself. So, if you picture the document being a  
16 PDF file hanging off the XML backbone and you click  
17 on that XML backbone and you open it up, you have a  
18 very detailed index or table of contents within  
19 that document but you shouldn't have more details  
20 in the main table of contents.

21 [Slide]

22 This was covered, once again, in the Q&As.



1 If your company is thinking about doing a CTD  
2 between now and July, make sure you go over these  
3 questions and answers because they really address  
4 and clarify issues that are of common concern to  
5 everybody. You can read this later. It just has  
6 to do with the numbering system.

7 [Slide]

8 If you don't have information for a  
9 section, just provide the number and header and  
10 "not applicable" or something else. One company  
11 skipped that portion and went through and  
12 renumbered everything and they had to do the whole  
13 thing over. That just sounds like something that,  
14 you know, I wouldn't even have to mention but I  
15 just mention it because someone actually did that.

16 [Slide]

17 In terms of regional information, regional  
18 information is for unique regional information. It  
19 is information that doesn't have a general topic  
20 designation in module 3. You really have to adhere  
21 to the examples that are in the CTD document,  
22 especially for quality in 3.2.R.

1           One company took chemistry information,  
2 CMC information that was different for the U.S.  
3 than for Europe and they had 17 different regional  
4 appendices and all that information could be  
5 incorporated under, you know, a CTD heading and  
6 numbering structure. It is just that they thought  
7 it was unique for the U.S. So, essentially their  
8 whole application was in the appendix. So, don't  
9 do that. Just find a place to put it, and put it  
10 into that section. Don't put it into the regional  
11 information. I think there are three examples for  
12 regional information; just use those examples.

13           [Slide]

14           The main topic for discussion at the  
15 meetings we had in Tyson's Corner in September was  
16 location, location, location. This is truly for  
17 the CTD quality. We are in the process of  
18 preparing a drug product and drug substance  
19 guidance and a lot of work and effort was spent at  
20 the meetings in September comparing our draft drug  
21 product and drug substance guidance for chemistry,  
22 manufacturing and controls information to the CTD.

1 The location of the information for drug  
2 substance/drug product in the CTD will actually be  
3 detailed in our draft guidances. It will have a  
4 topic and it will tell you where it goes in the  
5 CTD. So, that will help eliminate some  
6 misunderstanding. So, this has been a lot of work  
7 but I think it will be very helpful when it is  
8 finalized.

9 [Slide]

10 Another thing that we worked hard on in  
11 September was we revised the organization of the  
12 Common Technical Document for registration for  
13 pharmaceuticals for human use. It is the first  
14 document that is posted in the group of ICHs. It  
15 describes the overall organization. What we did,  
16 we actually sat down and went through all of the  
17 document's numbers and section headers one at a  
18 time, and we read aloud and made sure that they are  
19 all consistent. So, all of the numbering and  
20 section headers have been edited for consistency.  
21 Then we came up with a document that provides  
22 guidance on document location and pagination. That

1 sort of describes the clumps of information you  
2 will be submitting. It just describes what  
3 information should be kept together, and that is  
4 called the granularity document. Then we once  
5 again worked on Q&As for each of the modules and  
6 those have been posted on the ICH web for  
7 clarification.

8           So, after every ICH meeting the most  
9 important thing to do is go to the ICH website,  
10 ICH.org, to get the most up to date information.  
11 It takes a while for us to get these turned into  
12 our guidances and post it but it is immediately  
13 posted, within the next week, on the ICH web.  
14 Basically, all of that information is going to be  
15 the same in the regions, it just takes us a while  
16 to put it through the guidance process.

17           [Slide]

18           The final ICH CTD that was adopted is  
19 posted on the ICH web. It will take us a while to  
20 get this into our system because it is basically  
21 taking this huge document and going through it,  
22 updating little headers and sections. So, just use

1 the one that is on the ICH website.

2 We have a little disclaimer in the  
3 document now that says the wording of the core CTD  
4 may be slightly different from one region to  
5 another due to specific editing and local  
6 regulations. It does not affect the common  
7 understanding by the six parties of the CTD  
8 published on the ICH website. We have certain  
9 words that we can't use in the good guidance  
10 practice. There are different spellings; a little  
11 different wording, but that doesn't mean that there  
12 is a difference. It is just based on local  
13 regulation.

14 [Slide]

15 The eCTD which Jon Clark will be talking  
16 about soon has always been six months behind the  
17 CTD. That is logical because you have to describe  
18 the structure and system before you can actually  
19 turn it into an electronic submission. The eCTD  
20 will be a transport format to be moved into an  
21 agency's review environment.

22 Step 4 was reached in Washington, D.C.

1 this past September. I would say the biggest  
2 pay-off of the eCTD is that really we are going to  
3 do away with the big controversy of A4 versus 8.5 X  
4 11 paper. This is the most frequent question. It  
5 is the most frequent comment to the docket, that  
6 and margins, I suppose.

7 [Slide]

8 The other controversy is the overviews,  
9 module 2, and the summaries and how this relates to  
10 the ISS and the ISE. The name "summary" has caused  
11 great confusion. Our ISS and ISE aren't really  
12 summaries but they are integrated analyses. They  
13 are very critical components of the safety and  
14 efficacy review and they are expected to be part of  
15 the FDA submission. Nothing in the CTD has  
16 eliminated the need to provide us with this  
17 information. We are in the process of clarifying  
18 what remains of the guideline for the format of the  
19 clinical and statistical sections of an application  
20 that was published in July of 1988. I think that  
21 is about a 160-some page document. The only  
22 portions that are still in effect are the ISS

1 section, which is pages 32-46, and the ISE, which  
2 is pages 28-32.

3 At first Dr. Temple was going to update  
4 this. Then it got wrapped up into the new PDUFA-3  
5 risk management initiative. Part of the risk  
6 management initiative is to reevaluate how we look  
7 at safety. So, the ISS is going to be worked on by  
8 a larger group and that part will be updated. Dr.  
9 Temple is still going to have to work on the ISE  
10 because we don't think anyone is looking at that as  
11 part of the risk management initiative. So, we  
12 really didn't want to come out with another  
13 document, revising it, because of this new  
14 initiative that sort of took over. So, just keep  
15 posted.

16 [Slide]

17 Basically, the information you used to put  
18 in ISS and ISE you can incorporate it into the CTD  
19 and you can do whatever you want. You can put part  
20 of it into the overview, part in the summary and  
21 then more in the efficacy module. Basically, if it  
22 fits in a section, you can do it. Some people can

1 be very good at describing their product. For some  
2 reason it might not be a very lengthy integrated  
3 analysis because they didn't have that many  
4 studies. So, if you can fit it into one of the  
5 smaller portions, that is fine. This is also one  
6 of the most frequently asked questions at the  
7 pre-submission meetings. So, basically you should  
8 have a plan on how this should all fit together  
9 and, based on your product, you would get an answer  
10 that another company might not because they had a  
11 different program for their study program.

12 [Slide]

13 The next steps for FDA are training. We  
14 had training before the ICH-5 roll-out of the  
15 document. We want to make sure that all of our  
16 review disciplines have a chance to comment. So,  
17 we actually had a huge seminar and Dr. Bob Delap,  
18 who was still here at the time and in charge of the  
19 efficacy portion of the CTD, divided the ODEs into  
20 various groups and people had to review certain  
21 sections and provide their comments, and it was a  
22 huge seminar. The chemists dealt with it on one of



1 their retreats and so did the pharmtox people.

2           You know, we had roll-out prior to signing  
3 off to make sure that we didn't miss any major red  
4 flags. I have also met with senior project  
5 managers to provide updates after every ICH  
6 meeting. They have these CSO forums, project  
7 manager forums twice a year, and I go and talk. I  
8 think there are like 195 CSOs.

9           What we are waiting for now is submissions  
10 because we need to have experience. What happens  
11 is when the documents come in I get notified by the  
12 main document room. I then send an e-mail to the  
13 CSO in charge and I just tell him I would be glad  
14 to meet with them before the meetings so they have  
15 a basic understand. So, I am doing one-on-one  
16 training. Then, as soon as they get enough within  
17 a division, you know, they are training one  
18 another.

19           [Slide]

20           The CTD represents one of the most  
21 ambitious and successful international  
22 harmonization activities undertaken. It is really

1 the result of twelve to thirteen years of work and  
2 fifty guidances that have been worked on during  
3 that time. It will significantly reduce time and  
4 resources needed by industry to compile  
5 applications for global registration.

6 You might not think that now when you are  
7 re-keying your program, but eventually you are  
8 going to be establishing some very nice systems,  
9 hopefully electronic, that will make this much  
10 easier to deal with.

11 [Slide]

12 From the FDA perspective, the applications  
13 are going to be more reviewable. They are going to  
14 be more consistent from application to application.  
15 They are going to be complete and well organized  
16 because there is a common format for everybody,  
17 including the smaller companies to follow. It will  
18 be more predictable and this should lead to more  
19 consistent reviews. Several of the disciplines are  
20 actually developing templates based on the CTD so  
21 that there will be more predictable, consistent  
22 reviews coming out. This will allow for easier

1 analysis across applications. When these documents  
2 are electronic we are going to be able to actually  
3 go in and do an across division or across product  
4 or across class analysis.

5 We can't really do that now because the  
6 information comes in but it is all for one  
7 application. So, in the future we are really going  
8 to be able to look at, you know, hepatotoxicity  
9 across all classes. I just think in the future  
10 this will be very, very helpful in helping us deal  
11 with safety issues.

12 It also will provide for easier exchange  
13 of information, and by that I mean between  
14 regulators. We can talk with our co-regulators,  
15 our colleagues. When you think about it, if  
16 applications are going to be submitted basically at  
17 the same time to the regions, we are not going to  
18 have the luxury of waiting to see how something has  
19 performed in the European market or the Japanese  
20 market and we are really going to need  
21 international peer review. We are going to have to  
22 talk to our regulators to find out what they think

1 about some of these applications. There are  
2 mechanisms in the CFR that allow us to do that. It  
3 is 21 CFR 20.89 where we can share things with  
4 fellow regulators without having to go through the  
5 FOI process. Of course, the eCTD is going to help  
6 facilitate electronic submissions. The bottom line  
7 here is we will be getting better drugs to patients  
8 faster.

9 [Slide]

10 These are the languages of ICH, domo  
11 arigato; thank you; danke and merci. Danke is the  
12 Swiss. Just thanks for your attention. If you  
13 have any questions, I can answer them now. Any  
14 questions?

15 [No response]

16 Well, thank you again. Who is next? You?  
17 Christelle is going to provide you an update for  
18 Europe, Japan and Canada.

19 **Other ICH Regions Perspective**

20 ANQUEZ: Well, the CTD got signed in San  
21 Diego in 2000. Then, back home the regulators  
22 worked at implementing it in their own regions or

1 countries. That implied revising legislation or  
2 developing guidance.

3 [Slide]

4 In Europe, the Volume 2 Notice to  
5 Application got modified to include the CTD  
6 requirements, and was published in May, 2002.  
7 Also,, new templates for assessment report for the  
8 centralized procedure were edited. Lastly, the  
9 Annex I to the Directive 2001/83/EC is to be  
10 revised to reflect the CTD requirements.

11 In Japan, a guidance on organization of  
12 application dossier appended to new pharmaceuticals  
13 application for approval was published in June,  
14 2001.

15 In Canada, a preparation of drug  
16 submissions in CTD format and templates was  
17 published in September, 2001, and also data  
18 guidelines were developed or revised.

19 [Slide]

20 What is the intended scope of the  
21 submissions in CTD format? Europe will intend to  
22 call for all product type, new chemical entities,

1 radiopharmaceuticals, vaccines, herbals, and so on.

2 In Japan, it will apply to new chemical  
3 entities and new biologics for new indications, new  
4 dosage forms, new route of administration but  
5 generics and OTC are excluded.

6 In Canada, it will be applied to new  
7 chemical entities, new biologics, new indications,  
8 new dosage forms, new routes of administration,  
9 generics and OTCs, then later on will be extended  
10 to all other biologics and radiopharmaceuticals.

11 [Slide]

12 It was agreed that the application in CTD  
13 format could be submitted on a voluntary basis from  
14 July, 2001 to July, 2003 then it would become  
15 mandatory in Europe and Japan starting in July,  
16 2003, and will be highly recommended in Canada.

17 [Slide]

18 During this voluntary submission phase,  
19 the regulators agree to remain very, very flexible.  
20 In EU, mixed format will be allowed, that is, part  
21 as CTD and part as the old European format would be  
22 allowed together as long as they are not mixed

1 within modules. But module 1 must be provided and  
2 module 2 must be either the expert report or  
3 overview/summary specific guidance. Also, there  
4 was a problem for non-GMO environmental risk  
5 assessment data and where to place that. So,  
6 guidances on this topic were developed.

7 In Japan, it was agreed that an  
8 application would be accepted using a combination  
9 of the CTD and non-CTD formats, and it would be the  
10 same in Canada.

11 [Slide]

12 In the three regions, in order to  
13 facilitate the implementation of the CTD, the  
14 regulators developed a questions and answers  
15 document or are in the process of developing it,  
16 and they are usually on the website.

17 [Slide]

18 With the same aim of disseminating  
19 information about the CTD and educating both  
20 reviewers and industry about the new requirements  
21 engendered by the new format, a number of training  
22 workshops were organized in the three regions both

1 with industry and reviewers. They are listed.

2 [Slide]

3 In the EU, in the centralized procedure  
4 which is at the EU level, seven new submissions in  
5 full CTD format were received to date and three new  
6 applications in mixed format. Five supplemental  
7 applications were received and ten are expected in  
8 the near future. I don't have any data on the  
9 decentralized procedure at the EU member states  
10 level.

11 In Japan four new submissions were  
12 received so far and Canada got nine new  
13 submissions, eight supplemental and ten abbreviated  
14 ones.

15 [Slide]

16 If you need further information on the  
17 implementation in the three regions, EU, Japan and  
18 Canada, I have listed the websites. Thank you. I  
19 will now welcome Jon Clark who will do a  
20 presentation on the electronic--sorry, do you have  
21 any questions?

22 JERUSSI: Why did you include Canada in



1 your presentation?

2 ANQUEZ: You are right, it is not part of  
3 the core ICH sponsors but it is an observer, and  
4 has been very good at implementing guidelines and  
5 we work closely with them. So, that is why I  
6 included Canada. It is one of the three observers.

7 JERUSSI: That is something you have to be  
8 careful about. I see they have more applications  
9 than U.S. has or Japan. I think you have to be  
10 careful about what they are doing and that it it  
11 doesn't go outside of what the three regions are  
12 trying to do.

13 ANQUEZ: They really usually implementing  
14 the guidances the way they are in ICH so they don't  
15 deviate at all. They are very good. They really  
16 work closely with the three regions.

17 MOLZON: Most of the applications that  
18 they have received are ANDAs. So, we are actually  
19 relying on them to help us figure out how the ANDA  
20 process would progress.

21 ANQUEZ: Jon?

22

**Electronic CTD**

1 [Slide]

2 CLARK: I am a deputy topic leader for the  
3 M2 group working right now on the Common Technical  
4 Document in ICH. I am speaking today in place of  
5 Tim Mahoney who was the rapporteur for the M2. We  
6 have spent most of our time working on eCTD in the  
7 last couple of years and I am going to go over  
8 where our status is on everything today.

9 [Slide]

10 We will go through a description of the  
11 eCTD. It will be very brief and non-technical. We  
12 will go through the results of our September ICH M2  
13 meeting. We will go through some interim M2 work.  
14 We had a meeting agenda put together for a couple  
15 of weeks from now, in Tokyo. We will talk about  
16 the eCTD progress that we have had.

17 The basic idea behind the eCTD is not  
18 simply a paper list Common Technical Document; it  
19 really is a way to break the application up into  
20 hundreds of documents and to do something that has  
21 been called a "wrap" and to wrap them into some  
22 kind of a code that would make them easy to

1 reassemble on the other end. The advantages that  
2 gives are basically that it gets some consistency  
3 in the way the documents are handled, and also that  
4 we update a very large document such as an  
5 application. You don't have to update large chunks  
6 of information; you can send in small pieces and  
7 update those.

8           We accommodate all of the modules in the  
9 Common Technical Document. We have modules 2  
10 through 5 which are the modules that we have found  
11 harmonization on. We also include a regional  
12 module 1, which is a separate XML document to keep  
13 track of things in the same style as modules 2  
14 through 5. So, to do an eCTD you have two tables  
15 of contents, one is for 2 through 5 and the other  
16 one is for module 1. They are both XML backbones.  
17 By that, we mean they are tables of contents. They  
18 are not very easily read by the human eye. They  
19 need to be processed through a web browser in order  
20 to be easily read and then you can add style to  
21 them as you see fit.

22           The actual standard will be maintained by

1 the ICH M2 expert working group. That was a  
2 decision we made at our last meeting, that we would  
3 actually maintain the thing as long as it needs to  
4 be maintained. We signed off on an eCTD  
5 specification. We signed off for step 4 which  
6 means that we believe it is ready for  
7 implementation. We immediately then recommended a  
8 change to it, which was for a study report  
9 specification.

10 There were some acknowledged weaknesses in  
11 the way that the eCTD handled full clinical studies  
12 and we signed off on step 4 with acknowledgement  
13 that we would immediately request a change that  
14 would accommodate what the FDA needs to handle  
15 those study reports.

16 The eCTD change control process was also  
17 initiated. We are actually going to document our  
18 change control process and we have the change  
19 control document for that.

20 [Slide]

21 Of course, we approved the eCTD  
22 specification during this time up until the

1 meetings that we are having next week--two weeks  
2 from now. We had a video conference to do that.  
3 We defined the questions from the Q&A document.  
4 Justina was telling you how that works. We had  
5 questions through the website and we were trying to  
6 group them together and answer those questions  
7 ahead of time so we could do a little more nuts and  
8 bolts work in Tokyo.

9 We did a paper review on the change  
10 control document and we started the first proposal  
11 for the M2 sub-group on study reports. We had  
12 PhRMA actually put together a small group of people  
13 to help us flesh out a proposal for handling full  
14 clinical study reports within the eCTD. We put  
15 that forward as a first proposal.

16 UMEN: Does the clinical study report have  
17 a formal step process?

18 CLARK: The question was does the clinical  
19 study report have a formal step process. One of  
20 the reasons it is going along in parallel with the  
21 change control document is because the change  
22 control procedures have now been fully fleshed out.

1 Virtually all the resources of the M2 group were  
2 spent in getting the eCTD finalized. So, in  
3 parallel, while we solve this problem we are having  
4 a change control document go forward. We haven't  
5 fully resolved whether the changes would go through  
6 a step process or what kind of a process it would  
7 go through. That is not fully resolved. There are  
8 parties that would like to have a full step by step  
9 process. For us to fully implement the eCTD the  
10 way we had seen fit to do we need to have it sooner  
11 than later. So, there is a little bit of a push  
12 and pull there.

13 [Slide]

14 What we plan to do in our February meeting  
15 is to finalize that change control document; try to  
16 get an agreement on the study report  
17 implementation, at least get an agreement on  
18 something that could be piloted by us so we could  
19 at least make a move on how to implement that type  
20 of system for our clinical study reports.

21 Finalize the Q&A document, M2 eCTD style  
22 sheet--like I was saying earlier, the eCTD as it

1 comes in is not easily human readable. You need to  
2 have other things to go along with it so you can  
3 actually understand what is going on. That is  
4 called a style sheet sometimes. We actually are  
5 going to have a so-called default style sheet so we  
6 are working on that.

7       , We are going to address change requests,  
8 any that might occur above and beyond the study  
9 report; discuss XML attributes which has to do with  
10 the way we handle multiple sources of drug  
11 substances. We add what is called an attribute to  
12 an element. It is a technical term, but the point  
13 is how do you make sure that the machinery knows  
14 that there is a second source of the same material?

15           Updates and regional implementations have  
16 to do with FDA's idea of how to use the backbone in  
17 its electronic document management system and the  
18 idea of how other areas might use that same thing.

19           [Slide]

20           eCTD progress--we have an eCTD viewer  
21 system project in place. Version 1 is scheduled  
22 for release in the spring of 2003. I will tell you

1 that I have seen operating software released that  
2 could probably, at some minimal legal level, allow  
3 us access to the application. It does have some  
4 things wrong with it in terms of efficiency for  
5 review and we have asked for some changes. So,  
6 there will be some changes made there.

7           There is a guidance being written.  
8 Actually, it has been written and it is undergoing  
9 certain corrections and changes along the way so  
10 that we can publish how we want you to use the  
11 backbone. If you are familiar with the XML  
12 backbone for the eCTD, it is very accommodating.  
13 In particular, it has a certain piece for every  
14 single document that repeats over and over. That  
15 piece has a lot of things in it that you wouldn't  
16 necessarily use every day. So, we will propose in  
17 the guidance what days to use which things.

18           I skipped one here--oh, no, that is just  
19 piloting the sample eCTDs for region one. We are  
20 doing the same thing in region one as we are doing  
21 for two through five.

22           Market research, we are looking at all of



1 the commercially available software to see where we  
2 are with our contract work versus where the rest of  
3 the world is with the same types of things, and to  
4 come up with a so-called alternative. The term is  
5 alternative, meaning that we would meet an  
6 obligation to seek out alternatives before we  
7 proceed down a path further, with more money, to  
8 finish the project we are on now. So, we are  
9 underway on that as we speak.

10 [Slide]

11 Contact information for any electronic  
12 submissions should go to the address you see above  
13 there, it is esub@cder.fda.gov. That has been out  
14 there for years and years and it is still there.  
15 That is our primary source of comments.

16 Justina brought up the differences between  
17 paper and electronic, and one of the things that  
18 was resolved was the A4 paper versus 8.5 X 11. I  
19 will tell you that there was a bit of confusion  
20 that came up with pagination. Whereas, virtually  
21 all of the documents we have received up till now  
22 are numbered page 1 through 10,000 or whatever

1 number you get to from the beginning to the end,  
2 and you might insert blank pages because you know  
3 you might make mistakes and things like that, we  
4 are dropping that concept of having everything  
5 numbered all the way through and going to the  
6 concept of we have an official backbone; we use  
7 that as our so-called tabulation. Within the  
8 tabulation, within the individual files or  
9 individual documents those objects, those files  
10 are, in fact, paginated. Any questions? Mike?

11 UMEN: [Not at microphone; inaudible]

12 CLARK: I will repeat the question. The  
13 PIM project is primarily--well, the parts that are  
14 of interest to me for comparison purposes are  
15 mainly labeling, and how to accommodate the same  
16 information in eleven different languages. We  
17 don't have that problem because our official  
18 language is English and we receive documents only  
19 in English so we already have the exact same  
20 problems they have.

21 What I will tell you is that our labeling  
22 is in the module 1, the regional areas, so there

1 was no real need to come to any large agreement on  
2 how to handle labeling because they had already  
3 agreed previously to put it in module 1.

4 UMEN: [Not at microphone; inaudible]

5 CLARK: The question is will the  
6 granularity of the label for the U.S. be considered  
7 to be the same as PIM eventually? There are  
8 projects in the U.S. to consider what to do with  
9 labeling, and some of those projects do get to that  
10 granularity but it is beyond the scope of this  
11 meeting to really discuss because it is not  
12 necessarily part of the eCTD. Richard?

13 POSKA: Richard Poska. I actually have a  
14 two-part question. The first one is probably more  
15 for Justina and Jon both. Are both the Office of  
16 New Drug Chemistry and the Office of Generic Drugs  
17 at the point that they can accept eCTDs now?

18 CLARK: For paper CTDs, the answer is yes.  
19 For new drugs, we can receive something--I hope I  
20 don't cut you off here--but for paper the answer is  
21 yes. For electronic versions of the paper that are  
22 not the official eCTD--now, everybody who didn't

1 quite get that, you need to raise your hand, but  
2 there is a way to do a CTD that isn't necessarily  
3 the eCTD in electronic format. What you do is you  
4 make your table of contents in PDF and you make the  
5 PDF look like the CTD and you are not using the  
6 eCTD standard but you are doing it electronically.  
7 We accept those for NDAs now. We have already  
8 accepted at least one that I have seen and gone  
9 through one. I don't know whether the ANDAs are  
10 accepting those or not. Do you, Justina?

11 MOLZON: To my knowledge, we haven't had  
12 an ANDA. That is why I am very interested in  
13 working with Canada because they have a similar  
14 system. I think there is actually a wraps meeting  
15 this March. We are going to try have some very  
16 practical examples, and I have asked Mike Ward,  
17 from Canada, to come to that meeting to sort of  
18 explain their experience. We have generic  
19 representatives on the CTD groups but the word  
20 hasn't gotten it out yet.

21 POSKA: When will the complete eCTD be  
22 acceptable to both Office of New Drugs and Office

1 of Generic Drugs?

2 CLARK: That will occur at the same time.  
3 The guidances are being set up so that they all  
4 point to the same place to get the eCTD  
5 information. When we accept them for one, we will  
6 be accepting them for both. That should occur  
7 during this year.

8 POSKA: What about Europe and Japan as far  
9 as accepting the official electronic submission?  
10 Do you know what their status is for accepting  
11 those?

12 CLARK: I can't speak from here, but I  
13 believe that they are a little bit ahead of us in  
14 accepting the eCTD spec., the SML spec. They are a  
15 little ahead of us, Europe. I don't know anything  
16 about the Japanese status.

17 MOLZON: They are a little slower in  
18 putting things in place. If you routinely deal  
19 with Japan for submissions you probably know their  
20 status more than we do, but there is a translation  
21 issue and some other things.

22 CLARK: Any more? Thank you. Who is

1 next?

2       **Update on the Preliminary Concept Paper on the**  
3       **Clinical Evaluation of QT Interval Prolongation**  
4       **and Proarrhythmic Potential for**  
5       **Non-Antiarrhythmic Drugs**

6               MOLZON: Last chance for questions for Jon  
7 because he has to leave for another meeting. So,  
8 if you have another issue?

9               [No response]

10              [Slide]

11              What I am going to talk about is sort of  
12 an experiment that is ongoing in ICH. It is a way  
13 to incorporate guidances at a higher level into the  
14 ICH process. We actually held a DIA meeting for  
15 620 people this past Monday and Tuesday. It was an  
16 experiment on how to have an intimate discussion  
17 with 600 people and world renown experts on this  
18 topic and then capture all those thoughts and  
19 recommendations and introduce them into the ICH  
20 process. I only have a few slides but I am going  
21 to explain basically what we are doing.

22              The topic that this relates to is the

1           The topic that this relates to is the  
2 clinical evaluation of QT interval prolongation and  
3 proarrhythmic potential for non-antiarrhythmic  
4 drugs. As you know, there have been several  
5 products on the market that have had problems with  
6 QT prolongation. The thinking here is that if we  
7 can actually come up with a way to figure out how  
8 much of a safety issue this is once it is on the  
9 market--you know, if this shows up after the  
10 approval or actually in the drug development  
11 process, if there was a signal generated in the  
12 animal studies, what can you do to make sure that  
13 you can continue to develop that product and not  
14 just drop it by the wayside?

15           [Slide]

16           We already have a preclinical topic  
17 related to QT prolongation and it is ICH S7B. That  
18 document is the safety pharmacology studies for  
19 assessing the potential for delayed ventricular  
20 repolarization, QT interval prolongation, by human  
21 pharmaceuticals. This topic was released for  
22 consultation under step 2 in February of this year,

1 and it was published by the FDA in June of this  
2 year. So, we are still collecting comments. We  
3 can't really finalize this document until it works  
4 with the clinical aspects of this topic.

5 [Slide]

6 So, to look at the clinical evaluation and  
7 how you would study this problem in humans, Canada  
8 actually was requested by parliament or, you know,  
9 the government to develop a document related to QT  
10 prolongation because they were having some problems  
11 that the other regions were, some serious side  
12 effects from some products that showed QT  
13 prolongation.

14 The Center for Drugs was actually working  
15 on a very similar document and we realized the  
16 value of a joint effort. We further realized the  
17 value of a harmonized ICH document. Because you  
18 have an ICH observer and an ICH partner working on  
19 a document, you might as well introduce it into the  
20 ICH arena. However, we recognized the need for  
21 expertise outside of the ICH process. We needed  
22 input from electrophysiologists, cardiologists and,



1 you know, some people have said that ICH doesn't  
2 really have a lot of scientific expertise. That  
3 might be true because the working group members are  
4 just members from industry or members from  
5 regulatory authorities; they are not world renowned  
6 experts on these topics. So, we recognized there  
7 was a real need to have this document looked at by  
8 world renowned experts.

9           So, we developed a streamlined procedure.  
10 Canada and the U.S. proposed this a couple of ICH  
11 meetings ago, I think at the meeting in Brussels,  
12 where you could jump-start the ICH process by using  
13 a draft or final document that had been developed  
14 in one of the ICH regions that would provide a very  
15 strong foundation for the development of the ICH  
16 guideline.

17           If you remember the five steps that I  
18 explained at the beginning of this meeting, we  
19 generally start with a concept paper and then go to  
20 a consensus document. This was jump-starting the  
21 process by having an almost finalized document, but  
22 that document is very valuable because you can

1 include the necessary experts outside of the ICH  
2 process.

3 [Slide]

4 So, what we did to gather all this  
5 expertise was we worked with DIA and NASPE, which  
6 is the North American Society for Pacing  
7 Electrophysiology, and designed a workshop to  
8 discuss the document. We developed a preliminary  
9 concept paper which was really based on the  
10 original document that Canada had drafted. We have  
11 a QT prolongation working group, headed by Dr.  
12 Robert Temple and Dr. Douglas Throckmorton and  
13 others that have helped revise that original  
14 document. We posted the document on the website of  
15 DIA, ICH, Therapeutic Products Directory from  
16 Canada and CDER, all on the same day. So, we  
17 posted the document in November so people could  
18 read the document before the workshop this past  
19 week.

20 We also invited experts from NASPE. NASPE  
21 helped us round up, at the very last minute, a lot  
22 of these world renowned experts on how you read

1 these QT prolongation intervals and what they truly  
2 mean, to discuss the physiology, the problems, and  
3 some very excellent cardiologists that are world  
4 renowned. We also included the ICH working group  
5 at the meeting so they could hear the discussion  
6 and benefit from the recommendations and  
7 conclusions of this working group. So, this was a  
8 huge meeting. There were 620 people there. We had  
9 30 panelists, and the ICH process just would not  
10 adapt that well to that many people that would be  
11 interested in this topic. It was also a way to  
12 open it up to as many different people that wanted  
13 to attend.

14 [Slide]

15 This was really a new paradigm. It was a  
16 different approach for all of us. It was outside  
17 the norm for guideline development within ICH, the  
18 Center for Drugs and Health Canada. It was also a  
19 different venue for DIA. They are used to having  
20 these meetings in hotels. You know, a small number  
21 of people come and present their topic and there is  
22 some discussion. This was really an academic

1 setting. We had it at the University of Maryland  
2 at Shady Grove because we really wanted to promote  
3 academic discussions and, because we had no idea  
4 how many people were going to attend the meeting,  
5 we had to make sure that the venue could expand or  
6 contract based on the number of people that came.

7 [Slide]

8 We also had more, than twice the number of  
9 panelists; probably more than three times the  
10 number of panelists. We had thirty panelists.  
11 Several of you were at the meeting last week. We  
12 just kept changing the panelists based on the  
13 topic. We broke the document down into four or  
14 five different sections and we had people address  
15 questions that were developed specifically for that  
16 section and the world renowned experts would offer  
17 their suggestions or conclusions. Then, industry  
18 was very well prepared because they had the  
19 document; they had the questions; and they actually  
20 provided some very good insight into some of these  
21 issues also.

22 This was, in fact, one of the largest

1 meetings that DIA put on outside its DIA Euro and  
2 its annual meeting and they were just overwhelmed  
3 with the number of people that were interested in  
4 this. So, this very well could become a new way to  
5 approach things. We have a number of topics under  
6 way, such as good manufacturing practices. Our  
7 risk management topics are being dealt with in this  
8 way. So, you get a lot of people in a room. You  
9 get a lot of feedback on the issues at hand.

10 We also had a transcript taken by this  
11 very same transcriber we have here today. The  
12 resulting recommendations and conclusions will be  
13 incorporated into the document for ICH  
14 consideration. So, the transcript will be finished  
15 before we go into ICH. The working group will have  
16 access to what they heard because they were at the  
17 meeting. They will have the transcript so they can  
18 go back and review things. Some of the  
19 recommendations are actually being incorporated  
20 into the document. They were incorporated this  
21 weekend so that we could share it with our ICH  
22 partners before the ICH meeting that is going to be

1 held the week of February 3rd in Tokyo.

2 The result will be a harmonized approach.

3 It is sort of jump-starting the process because the  
4 document that is presented to the ICH is much more  
5 evolved than the general concept paper, but it does  
6 take a lot of work up front to get this done. I  
7 guess the point is you have to actually figure out  
8 when you are going to be introducing something like  
9 this into the ICH, and we still have to work out  
10 some of those details. But I was very pleased with  
11 the number of people that came. I thought the  
12 discussion was amazing and I think this is going to  
13 result in a very, very strong document. Yes?

14 KOERNER: Do you anticipate that the  
15 revised document will be posted after the meeting  
16 or prior to the meeting?

17 MOLZON: Please identify yourself for the  
18 transcript.

19 KOERNER: Chin Koerner from Novartis.

20 MOLZON: The document will enter the ICH  
21 process and when it gets to step 2, step 3, it will  
22 be posted in all the regions and everyone will have

1 a chance to comment. Anyone else?

2 [No response]

3 Actually, now I would like to ask Min Chen  
4 and Susan Lu to come down and sit up front because  
5 we are going to be talking about pharmacovigilance  
6 topics. But, first, I think we would like to take  
7 a break. We have to put the programs into the  
8 computer so it would be a good time to take a break  
9 right now. Thank you.

10 [Brief recess]

11 ANQUEZ: Welcome. Min Chen will give us  
12 an update on the V1 topic.

13 **Update on the Pharmacovigilance Topics**

14 **V1 Topic**

15 CHEN: Hi.

16 [Slide]

17 For the postmarketing area, ICH didn't  
18 have a topic until recently. I think in the  
19 mid-'90s there was one, the E2C guideline, that was  
20 developed and adopted by the FDA. Last year three  
21 topics came up. They were called V1, V2 and V3. I  
22 don't know why "V" was selected as the name of the

1 topic. Maybe it is something about  
2 pharmacovigilance; I will accept that.

3 I am here to provide an update for the V1  
4 topic. The V1 topic is actually an addendum to the  
5 E2C that was published before. The expert working  
6 group was assembled earlier, last year, because  
7 there was need for an addendum to the E2C  
8 guideline. There was a meeting in June last year  
9 in London that had the first draft. A step 2  
10 document was reached, completed in September of  
11 2002 in Washington, D.C. and that is what I am  
12 going to provide, the status of this addendum.

13 [Slide]

14 The ICH steering committee actually signed  
15 off the step 2 document in September and it is up  
16 to the three regional regulatory agencies to  
17 publish it for additional comments. EMEA has  
18 published for comments in September of last year.  
19 They have collected some comments from EFPIA.  
20 Japan published in November. The comments deadline  
21 is January 10. So, we haven't seen any comments  
22 yet. In the U.S., we published in the Federal



1 Register as a notice on December 31. The comments  
2 deadline is January 24, in one week actually--no,  
3 in a few days. If you can find them and make  
4 comments in time, that would be great. I will be  
5 collecting them for the Tokyo meeting.

6 [Slide]

7 To give you a little bit of background on  
8 V1, first we have to know what PSURs are. It is  
9 called periodic safety update reports. The present  
10 situation in the U.S. is that we adopted the ICH  
11 E2C guideline in 1997. However, the periodic  
12 reports in this kind of format have not been  
13 required yet. The draft reporting guidance,  
14 published in March of 2001, actually allows  
15 companies, through waiver requests, to submit these  
16 periodic reports in E2C format. So, in FDA we do  
17 have some experience in accepting the PSURs  
18 following the E2C guideline but the experience is  
19 limited. So, we don't have a lot to say on the V1  
20 topic as far as detailed comments because there is  
21 nothing required in the U.S. However, in EU and  
22 Japan they are required, therefore, most of the

1 content in the addendum is based on the EU and  
2 Japanese experiences.

3 [Slide]

4 In this document the aim was to  
5 synchronize the national birthdates, local  
6 birthdates actually, with the international  
7 birthdates, how they do it and how flexible it can  
8 be--use of the latest version of the reference  
9 safety information, company core safety  
10 information, CCSI, if it is a long version of the  
11 PSUR, you can use the latest version. If it is the  
12 shorter version, such as six months or one year,  
13 you can still use the beginning of the period of  
14 CCSI as a reference.

15 Submission of the executive summary as  
16 part of the PSUR is a new concept, CM-5, that we  
17 adopted because when you have volumes of  
18 information in a PSUR it is very hard to know  
19 exactly what is going on in the PSUR by first  
20 looking at some of the information. So, the  
21 introduction of the executive summary, summarizing  
22 important, or highlighting important information in

1 the PSUR for the reader is very helpful.

2 Options to submit summary bridging reports  
3 and addendum reports--these two concepts were also  
4 derived from CM-5. This will give us some more  
5 information in between submissions.

6 Handling of solicited reports--this topic  
7 is hot in the medical community. Although this has  
8 been specified as study reports in the U.S.  
9 guidelines, internationally, because of the  
10 solicited reports from the disease management  
11 program and other survey programs, are getting more  
12 and more so there is a need for how to handle these  
13 reports in PSURs.

14 The next steps to the addendum are to  
15 collect all the comments for further discussions as  
16 step 3. If we can reach step 4 in the near future,  
17 that would be up to each regulatory agency to  
18 publish as a final guideline to implement.

19 [Slide]

20 I will just give you more background about  
21 the periodic reporting requirement in the U.S. In  
22 21 CFR 314.80 there is a reporting timeline, saying

sgg

1 that it should be submitted quarterly for the first  
2 three years and then annually. Upon written  
3 notice, however, FDA may extend or reestablish the  
4 cycle at different times, such as new major  
5 supplement approvals or other conditions as needed.

6 [Slide]

7 Required components in the periodic  
8 report--currently there should be a narrative  
9 summary and analysis of interval expedited reports,  
10 and FDA Form 3500 A with an index consisting of a  
11 line listing of all non-expedited reports; history  
12 of actions taken.

13 [Slide]

14 In the current draft reporting guidance  
15 about period reports four sections are specified:  
16 narrative summary and analysis; narrative  
17 discussion of actions taken; index line listing;  
18 and the forms. However, the PSUR definitely adds a  
19 lot of value to the period report content and  
20 format. We welcome that and the addendum actually  
21 helped industry to have a little bit more  
22 flexibility in how to submit this PSUR to the

1 different regulatory agencies. In the addendum,  
2 under the introduction, it actually provides  
3 clarifications and guidance beyond what is provided  
4 in E2C. However, it should be used with E2C.

5 [Slide]

6 Under the objectives, PSURs contain  
7 proprietary information and actually the  
8 confidentiality of some of the data needs to be  
9 addressed. This is a more comprehensive safety or  
10 risk-benefit analysis preparation document.  
11 However, this can be submitted also as a  
12 stand-alone document if there are any specific  
13 safety issues that can be analyzed as either  
14 requested by the regulatory authority or initiated  
15 by the company.

16 [Slide]

17 Under general principles, in the addendum  
18 that was developed it is still one report for one  
19 active substance, however, there can be situations  
20 when separate PSURs are submitted. Fixed  
21 combinations can be separated from a single  
22 ingredient or two or more different formulations

1 that are very different, such as a systemic versus  
2 a topical.

3 [Slide]

4 The international birthdate and the  
5 frequency of review and reporting can be negotiated  
6 with some additional line listings and/or summary  
7 tabulations if they have different frequency. An  
8 addendum report can be used if the time period is  
9 longer.

10 [Slide]

11 We can synchronize the national birthdates  
12 with the international birthdates. It depends on  
13 how you negotiate with the regulatory agency.

14 [Slide]

15 There are summary bridging reports that  
16 you find in the addendum. The concept is based on  
17 the CIOMS-V report. It is a concise document that  
18 integrates two or more PSURs to cover a specified  
19 period.

20 [Slide]

21 Addendum reports are also used to update  
22 the most recently completed PSUR. This is actually

1 requested by the regulatory authorities or  
2 initiated by the companies.

3 [Slide]

4 How or when to restart the clock, I think  
5 this has been discussed very widely among the  
6 industry. The decision should be discussed with  
7 the regulatory agency when a new clinically  
8 dissimilar indication or a new population is going  
9 to be exposed to this drug in the area; a new  
10 formulation or a new route of administration.

11 [Slide]

12 The time interval between the data lock  
13 point and the submission is specified in the E2C  
14 guideline as only 60 days. Companies complain that  
15 60 days sometimes is not enough to make a  
16 submission. So, if there is a need, industry can  
17 request an extension or change of the submission  
18 time from the regulatory agency.

19 [Slide]

20 I mentioned safety reference information.  
21 You can use it in the beginning for a shorter  
22 period report or the latest CCSI at the end of the

1 period for longer a period of reports.

2 [Slide]

3 The exec. summary concept is introduced.

4 [Slide]

5 The patient exposure--we all understand,  
6 it is difficult to estimate patient exposure data  
7 because there are so many different kinds of data  
8 out there available for estimating the exposure.  
9 However, we all agree that there should be  
10 consistency in the method of calculation of the  
11 patient exposure, and try to avoid any overlapping.

12 [Slide]

13 Presentation of individual case histories  
14 is also a not quite specified section. It should  
15 contain a description and analysis of the selected  
16 cases containing new or relevant information and  
17 grouped by SOC's. However, if there are a lot of  
18 reports submitted during this period of time, there  
19 should be criteria specified for how you select the  
20 cases for presentation. There are other  
21 specifications that are listed there.

22 [Slide]



1           Lastly, the overall safety information  
2   should be discussed and analyzed according to the  
3   SOC organization structure. Related terms should  
4   be reviewed together for clinical relevance instead  
5   one term after another one so that no one can  
6   figure out what the clinical relevance of these  
7   reports is. That is it. Are there any questions?

8           MOLZON: Did you mention how this is going  
9   to interact with the PSUR?

10          CHEN: I didn't because the PSUR format is  
11   not quite yet in the U.S. Why? Because the  
12   proposed rule, the suspected adverse drug reaction,  
13   is going to require a PSUR format in the near  
14   future. In that SADR rule there are a little bit  
15   different specifications about PSURs than the  
16   current E2C specifications. Therefore, in the  
17   future when the SADR is published we can discuss  
18   more what the best way or best harmonized way to  
19   put a PSUR together.

20          MOLZON: And we don't want to have  
21   conflicting definitions in the document that Min is  
22   working on. So, we have been waiting for this

1 proposed rule for a long time because it also  
2 requires the use of MedDRA, etc. Every time there  
3 is a change in the administration, it is at the top  
4 of the pile and gets kicked back down. It could be  
5 out by March so we want to make sure that nothing  
6 we do in ICH interferes with that. So, we really  
7 have to wait to see how the document actually gets  
8 put out. There is a series of questions that are  
9 asked before a proposed rule is put out, a whole  
10 process. We are not quite sure what the final  
11 document will be until it goes completely through  
12 that regulatory process. So, we are trying to work  
13 within the ICH and the document that is coming out  
14 to make sure there is no conflicting information.

15 CHEN: Yes. Right now for V1 the concept  
16 content really is adding a lot of value to our  
17 current periodic report content. So, we welcome  
18 the PSUR for that and this is not final until it is  
19 final.

20 ANQUEZ: Susan Lu will present you with an  
21 update on the V2 topic.

22

#### V2 Topic

1 LU: Good afternoon. This is an update on  
2 the V2 topic and the activities associated with V2.

3 [Slide]

4 The focus of V2 is on post-approval safety  
5 management. Specifically, it is a guideline on  
6 definitions and standards for expedited reporting  
7 and good case management practices.

8 [Slide]

9 Just a little background, this topic was  
10 adopted by ICH about this time last year. The  
11 working group met previously, in June and September  
12 of last year. The FDA representatives are myself  
13 and Tim Cote. Min Chen is our back-up  
14 representative from CDER.

15 [Slide]

16 V2 is a follow-up of the existing ICH E2A  
17 guideline which deals specifically with  
18 pre-approval safety data during drug development.  
19 It is based on the contents of E2A, with  
20 considerations of how the definitions and terms can  
21 be applied to the post-approval phase of a product.  
22 The style and content will be consistent with E2A

1 while incorporating relevant recommendations with  
2 CIOMS-V.

3 [Slide]

4 The current status is step 1, with  
5 discussion of various topics and consensus building  
6 among the three parties. I should note that this  
7 is a work under construction so definitions and  
8 concepts that I may mention here may change during  
9 our discussions. The working group at this time is  
10 moving towards finalization of a draft in  
11 preparation for step 2.

12 [Slide]

13 These are some of the highlights of the  
14 agency's goals and comments for V2. First, while  
15 we recognize the need to harmonize with other  
16 parties, our priority is to ensure that the  
17 concepts and content are consistent with current  
18 use regulations. Second, it is important that the  
19 guideline reflects good reporting practices.  
20 Additionally, there is need for further discussion  
21 to clarify various topics and some minor editorial  
22 comments in order to streamline the document.

1 [Slide]

2 The goal of V2 is to set standards; to  
3 improve the quality of safety information and to  
4 harmonize methods for gathering and reporting  
5 safety data. This slide summarizes the four  
6 sections of the guideline. Arising from the goals  
7 set forth, the V2 develops standard definitions and  
8 terms for key aspects of post-approval safety  
9 reporting and contains standards for expedited  
10 reporting and good case management.

11 [Slide]

12 This is the introduction and it mirrors  
13 that of E2A, which is to improve the quality of  
14 safety information and to ensure uniform good  
15 reporting practices in the post-approval phase.

16 [Slide]

17 Section II starts with definitions of  
18 basic terms associated with post-approval drug  
19 safety experience, such as definitions for adverse  
20 events and adverse drug reaction. Adverse  
21 reactions which are serious and unexpected should  
22 be reported promptly. The criteria for serious and

1 unexpectedness is discussed. Other definitions  
2 specific to post-approval safety monitoring are  
3 addressed, as well as various sources of individual  
4 case reports. Examples of these sources would  
5 include the medical literature, Internet and  
6 post-approval studies.

7 [Slide]

8 This is just an example of one of the  
9 definitions in the guideline. The definition for  
10 an adverse event has previously been agreed upon by  
11 consensus of more than thirty collaborating  
12 centers. The WHO drug monitoring center and some  
13 minor modification was taken to accommodate the  
14 post-approval environment. So, an adverse event  
15 can, therefore, be any untoward medical occurrence  
16 that is associated with use of a medicinal product  
17 whether or not it is considered related to the  
18 product.

19 [Slide]

20 Definition of an adverse reaction--here  
21 are some definitions, the first being a  
22 well-accepted definition for ADR from the WHO

1 technical report. The second definition is one  
2 that is found in ICH E2A. I would anticipate that  
3 the definition of the guideline when it is  
4 finalized will closely resemble that of E2A, the  
5 second definition.

6 [Slide]

7 There are two principal criteria that  
8 control priority for documenting and reporting ADR  
9 cases, seriousness and unexpectedness. So, the  
10 concept of unexpectedness refers to events which  
11 may or may not have been previously observed and  
12 documented. In a regulatory sense, an adverse  
13 reaction is considered unexpected unless it is  
14 mentioned in the local product labeling.  
15 Furthermore, the issue of class labeling is  
16 addressed in V2 which is not addressed in the regs  
17 at this time. But what is up for consideration is  
18 a statement that class ADRs would be considered  
19 unexpected only if the product itself is  
20 implicated.

21 [Slide]

22 The traditional sources of adverse

1 experience information are clinical trials and  
2 spontaneous reports. The latter usually far  
3 exceeds the former in numbers and types of reports  
4 over the lifetime of the product. V2 will address  
5 various sources of individual case reports,  
6 unsolicited sources and solicited sources, as well  
7 as licensor-licensee interaction and regulatory  
8 authority sources.

9 [Slide]

10 The third section of V2 defines the  
11 standards for expedited reporting and reporting  
12 time frames. There is commonality across most  
13 countries for requirements covering expedited  
14 reporting of serious unexpected adverse reactions  
15 despite some local variations.

16 [Slide]

17 As a rule, cases of adverse drug reactions  
18 that are both serious and unexpected are subject to  
19 expedited reporting. This applies to all the  
20 sources previously outlined.

21 [Slide]

22 Section III.B. addresses reporting time



1 frames. All serious ADR case reports should  
2 qualify for expedited reporting and must be filed  
3 no later than 15 calendar days after first  
4 knowledge by the sponsor that the case meets  
5 minimum criteria for expedited reporting. Minimum  
6 criteria is defined as an identifiable patient, an  
7 identifiable reporting source, a suspect medicinal  
8 product and an adverse reaction.

9 [Slide]

10 Lastly, the last section of V2 deals with  
11 good case management or practices which I like to  
12 refer to as good reporting practices. Several  
13 areas are covered here, the first being assessing  
14 patient and reporter identifiability; secondly, the  
15 role of narratives; single case evaluation;  
16 follow-up information; and how to report. Any  
17 questions?

18 [No response]

19 Thank you.

20 ANQUEZ: Thank you, Susan. Now I will  
21 turn the floor to Stephanie Simek, who will provide  
22 you with a presentation on gene therapy.

1           MOLZON: While Stephanie is setting things  
2 up, as Min said, her document published late so if  
3 you have any comments, make sure you turn them in  
4 as soon as possible. We will be posting yours  
5 after this go-around. So, be aware that this is a  
6 whole new set of topics so you might need to  
7 involve, you know, some different people than the  
8 normal ICH folks for safety, efficacy and quality.  
9 We are sort of branching out here and comments are  
10 welcome.

11                           **Update on Gene Therapy**

12           SIMEK: Thank you. What I am going to do  
13 in the next few minutes is just give you a brief  
14 summary of the September 9, 2002 ICH workshop on  
15 gene therapy that was held in Washington, D.C.

16                   [Slide]

17           Before I go into some of the specifics of  
18 this meeting, I think what I will do first is just  
19 give you a brief introduction regarding the events  
20 that led to the organization of this meeting.  
21 First, in Brussels, on February, 2002 the ICH  
22 steering committee met to discuss the logistics of

1 having a gene therapy workshop. At this time, the  
2 steering committee members were asked for comments  
3 regarding the importance of this meeting and also  
4 for possible speakers for this workshop.

5 In May of 2002 there was a satellite  
6 meeting held in Tokyo on biotechnology and gene  
7 therapy products, which was sponsored by Dr.  
8 Katherine Zoon and Dr. Lincoln Zang. It was noted  
9 at this time that currently scientific principles  
10 for the regulation of gene therapy products were  
11 currently being harmonized in the three different  
12 regions.

13 It was agreed by members of ICH that the  
14 field of gene therapy is extremely complex and is  
15 also very rapidly evolving. They suggested that  
16 there should be a mechanism for the exchange of  
17 scientific expertise and experience among ICH  
18 partners to foster harmonization of technical  
19 requirements in this particular area.

20 [Slide]

21 At the Tokyo satellite meeting three  
22 critical points were identified as priority areas

1 for such exchanges. These were dose definition and  
2 standardization for gene therapy viral vectors;  
3 virus shedding and, in particular, adenovirus  
4 shedding and the effect that this shedding might  
5 have on the environment and also on people who come  
6 in contact with subjects who have been treated with  
7 these gene therapy vectors. The last topic was the  
8 potential of germ-line integration, which is a  
9 particularly important issue for vectors such as  
10 retroviruses and lentiviral vectors that are  
11 currently being used in gene therapy studies.

12 [Slide]

13 Before I go into the specifics of each of  
14 the three sessions, I just want to give a brief,  
15 quick background on this workshop. I should say  
16 first that this was the first open scientific  
17 meeting that ICH held on the subject of gene  
18 therapy.

19 The issues that were addressed were the  
20 three that I mentioned, with probably a little bit  
21 of a change in the last subject. One was the  
22 discussion on the utility of using an adenoviral

1 reference material that has already been  
2 manufactured as a collaboration between industry,  
3 the academia and the FDA. The talks focused on  
4 using this reference material to assess virus  
5 particles and infectious titer among the vectors  
6 that are used by different manufacturers.

7         The second issue that was discussed at the  
8 workshop was adenovirus shedding in subjects that  
9 received an adenoviral vector as part of their gene  
10 transfer clinical trial.

11         The last topic of the meeting was a  
12 discussion on lentiviral vectors. We chose this as  
13 a novel vector system and the meeting and the  
14 discussions were concerned about what the  
15 international scientific community considered  
16 safety issues regarding the use of this vector  
17 system in potential clinical trials.

18         [Slide]

19         What I am going to do in the next two  
20 slides is just give a brief background or summary  
21 on adenovirus reference material that was  
22 developed. I will probably refer to this reference

1 material as the ARM.

2 Now, in 1999, after the death of a subject  
3 that was enrolled in an adenovirus gene therapy  
4 trial, the NIH, FDA and the gene therapy community  
5 met many times to discuss adenoviral vector safety,  
6 toxicity and efficacy. One outcome of many of  
7 these symposia and meetings was the establishment  
8 of a working group that consisted of members from  
9 industry, academia and the FDA.

10 The mission of the working group was to  
11 manufacture, under full CGMPs, a wild type ad-5  
12 type vector which was produced to be used as the  
13 reference material for all investigators doing  
14 adenoviral studies. The reason this reference  
15 material was generated was that there has always  
16 really been a general concern, shared by all  
17 investigators using adenoviral vectors, about the  
18 precision and accuracy of adenoviral titers and the  
19 determination of particle counts. The real reason  
20 for this concern is that the assays that are used  
21 to measure infectious titer or particle counts are  
22 really not very consistent among different

1 manufacturers. Also, it has been shown that there  
2 is a sharp threshold effect that is observed when  
3 calculating the dose toxicity curve when using  
4 these vectors. It has also been shown that higher  
5 doses of vector actually cause toxicity and the  
6 toxicity is due to the virus particle itself.

7 Another issue of concern that the  
8 international community had was also the level of  
9 replication competent adenovirus, or RCA, that is  
10 present in each lot of vector that is manufactured,  
11 and actually how much RCA is really safe.

12 [Slide]

13 From the discussion generated at the  
14 workshop, it was agreed that when developing a  
15 particular standard or reference material,  
16 regardless of whether it is a retrovirus,  
17 lentivirus or an adenovirus, it is important to  
18 have some insight on what can be accomplished by  
19 developing that reference material. It was clear  
20 from the presentations and discussions on the use  
21 of the ARM that its use will lead to the production  
22 of more consistent, safe and quality vectors. The

1 use of adenovirus reference material will also  
2 allow for comparability between both preclinical  
3 and clinical studies, and will ultimately lead to  
4 development of regulatory policy for adenoviral  
5 vectors that are used in clinical trials once we  
6 obtain enough data that has been generated from the  
7 use of this reference material.

8 [Slide]

9 The next presentation addressed the issue  
10 of adenoviral shedding. Presenters addressed the  
11 safety properties of adenoviral vector products and  
12 also the safe handling of viruses in relation to  
13 the environment and against inadvertent exposure to  
14 the environment. So, the real concern here is, is  
15 there a safety issue to the health workers that  
16 administer this vector to subjects, and also to  
17 direct family members living with subjects who have  
18 been treated with an adenovirus vector?

19 Based on the data that was presented, the  
20 ICH experts encouraged further collection of data  
21 from clinical studies using these vectors, but  
22 agreed that at present, based on current available



1 data, there was no real safety risk that had been  
2 identified.

3 [Slide]

4 Next, there were numerous presentations on  
5 the novel vector system lentiviral vectors. The  
6 presentations focused on many issues but the major  
7 one was the safe use of these vectors in clinical  
8 studies. The safety issues covered topics such as  
9 generation of replication competent lentivirus,  
10 which we call RCL. This can occur during the  
11 manufacture of these vectors, and is a potential  
12 safety concern.

13 Also, topics discussed what types of  
14 assays would be needed to be developed and used to  
15 ensure that no RCL would be administered to  
16 subjects getting these vectors in a clinical trial.

17 Another issue that was discussed was that  
18 of insertional mutagenesis with the known fact that  
19 all retroviral vectors, and lentivirus is a member  
20 of that group, can integrate into the host genome.  
21 One concern of the international community is that  
22 the vector can integrate into the genome and, in

1 doing so, can disrupt the function of the normal  
2 gene and that this disruption could potentially  
3 lead to cancer.

4           There was also a discussion on the  
5 potential of lentivirus to integrate into the germ  
6 line if oocytes or sperm cells were inadvertently  
7 infected during administration of this vector.

8           The remaining safety issue that was  
9 touched on was the potential for mobilization of an  
10 integrated lentivector. What I mean by this is  
11 that during the normal packaging of a virus you can  
12 take what would basically be pretty much a stripped  
13 down, non-infectious virus particle but if you were  
14 treating an HIV-positive population there is the  
15 potential of a recombinant event and this might,  
16 though there is a very small chance of this, but it  
17 might lead to recombination with the wild type HIV  
18 and then lead to a potential for a stronger or more  
19 replicated vector or virus.

20           [Slide]

21           Further presentations focused on the  
22 importance of developing appropriate assays and

1 controls for testing for RCL so that this would not  
2 be an issue. There were also talks on vector  
3 design and the production of safer vector systems.  
4 Lastly, there was a presentation about developing  
5 appropriate in vivo animal models to study safety  
6 issues such as the mobilization and insertional  
7 mutagenesis.

8 [Slide]

9 At the conclusion of the one-day meeting  
10 the ICH discussion group agreed that investigators  
11 should begin to use this adenovirus reference  
12 material to measure virus particles and infectious  
13 titer. It was also agreed that there should be a  
14 review of the accrued data generated from the use  
15 of the ARM and that this information should be  
16 evaluated and then reported back to the group at  
17 the July Brussels meeting.

18 This data would, hopefully, be used to  
19 correlate safety information regarding dose-related  
20 toxicities and also the level of replication  
21 competent adenovirus that is administered to  
22 subjects. When enough data is accumulated, we will

1 then be able to correlate this data between  
2 different investigational trials and get some  
3 consistency.

4 [Slide]

5 Finally, the discussion group recommended  
6 that adenovirus shedding data should continue to be  
7 collected and this topic should again be revisited  
8 at a later date.

9 In regards to the lentiviral vector  
10 system, the group recommended that tests for RCL be  
11 developed, and they also recommended that in vivo  
12 animal models for lentivirus also be developed.  
13 The consensus was that lentiviral vectors could be  
14 used in clinical applications but their use must be  
15 based on a risk-benefit consideration.

16 Lastly, further discussion on these topics  
17 and more in-depth discussion on germ-line  
18 transmission was proposed for the sixth ICH meeting  
19 in Japan.

20 I will stop here and take any questions if  
21 anybody has them.

22 MOLZON: Thank you, Stephanie. I would

1 just like to point out that in the handout for  
2 ICH-VI, if you notice on the very bottom, there is  
3 an afternoon session on gene therapy. This is a  
4 very good example of how we are dealing with  
5 emerging topics.

6 Stephanie, could you just relate your  
7 experience to what a wonderful program the open  
8 session was?

9 SIMEK: This was my first actual  
10 experience with ICH so I came in as a novice and  
11 maybe that played a part, but what I found was that  
12 the international community was very aware,  
13 everyone was very aware of the safety issues that  
14 are out there and everyone worked very well  
15 together. We wanted very much for the ICH to  
16 accept this. Although this is a novel approach for  
17 the ICH and we are not prepared at this point to  
18 write any guidances whatsoever, I think the ICH  
19 became very aware that sometimes you have to start  
20 early on to get involved in something that is  
21 moving as rapidly as this is. So, we found the EU  
22 and the Japanese delegation, as well as the other

1 groups--we worked together so well that I am  
2 envisioning that this will move rapidly and,  
3 hopefully, some day we might be able, you know, to  
4 have some consensus on certain requirements.

5 ANQUEZ: Thank you, Stephanie. Now I am  
6 very pleased to welcome Patrick Revelle and Jim  
7 Mundell from TRW, who came on purpose to give a  
8 presentation on MedDRA maintenance.

9 **Medical Dictionary for Regulatory Activities**

10 REVELLE: I am going to start the  
11 presentation with just some overviews. This is the  
12 first time the MSSO has addressed a public meeting  
13 of the ICH. MSSO, for those of you who don't know,  
14 is a maintenance contract for the MedDRA  
15 terminology. It was awarded back in 1998,  
16 actually, to BBM which was then merged into TRW.  
17 Also, MSSO has an oversight panel for the  
18 management board, which is an ICH expert working  
19 group itself.

20 [Slide]

21 As far as where we are right now with the  
22 MedDRA subscriptions, MedDRA's only funding is

1 through subscription sale. There are about 820  
2 subscribers worldwide. This is how they fall in  
3 the ICH regions, but you also see non-ICH regions  
4 of eight percent, which is primarily regulatory  
5 authorities in those regions.

6 [Slide]

7 A different cut is by type of company or  
8 institution. As you can see, primarily it is  
9 pharmaceuticals, biologics and the CROs that  
10 support them. This other 17 percent is made up of  
11 system software designers, as well as  
12 non-regulatory governmental agencies, and then  
13 those subscribers that did not provide us with a  
14 definition of what type of company they are.

15 [Slide]

16 MedDRA has multiple levels of  
17 subscriptions that are based on revenue of the  
18 company. When we started in 1999, we had four core  
19 levels and a basic subscription and a regulatory  
20 subscription. We then added a fifth core level for  
21 the biggest companies, as well as a software  
22 developer license. We also recently added a

1 sub-zero license for very small companies, and we  
2 are in the process of proposing maybe a couple more  
3 modifications to the subscription service.

4 [Slide]

5 As far as regulatory standing, right now  
6 Japan was the first to strongly recommend the use  
7 of MedDRA in 1999. They now have a mandate for the  
8 use of MedDRA that will take effect on October 1 of  
9 this year for all electronic filings.

10 EU also has in effect now their use of  
11 MedDRA for electronic filings. It is a mandate.  
12 They also have put out a request for all single  
13 case severe safety reports going back to 1995 for  
14 those licensed within the European Union to market.  
15 They also currently have a draft version of a  
16 mandated use of MedDRA for clinical trials, which  
17 is in internal review.

18 As for the United States, as of January 4,  
19 we believe it is, the proposed rule went back to  
20 OMB for review and has another 90-day review  
21 period.

22 [Slide]



1           This is just a listing of some of the  
2 regulators, not necessarily all of them, but you  
3 can see that outside of the ICH you have things  
4 like Argentina, Taiwan, Malaysia. A few months ago  
5 I was in a meeting in Singapore, hosted by the  
6 Chinese government there. We talked about MedDRA  
7 ICH initiatives and the like.

8           [Slide]

9           As far as what is going on at the MSSO  
10 this year and in the near future, originally MedDRA  
11 was available just in English and Japanese. In  
12 2002 it has been translated into French, German,  
13 Portuguese and Spanish down to the PT level, the  
14 preferred term level. Spanish is down to the LLT  
15 level. That is still finishing its quality review  
16 because there are so many terms there. There are  
17 translation issues based on the English MedDRA as  
18 far as British and American spelling conflicts when  
19 you have to have a unique translation for each  
20 term, let alone the use of synonyms. In other  
21 languages, they may have only two synonyms to our  
22 five. There is also the reverse, where they have

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1 five or six synonyms to our one word. So, the LLTs  
2 are still being worked on. As of now, you can get  
3 MedDRA only in Portuguese and Spanish. The Germans  
4 have signed over their property rights to the EFPIA  
5 who is the trustee of MedDRA, but we have not  
6 received permission to distribute it. And, we are  
7 still waiting for the French to sign over their  
8 property rights.

9 As far as other languages, the only ones  
10 that we know that are actively being worked on is  
11 Greek. There have been discussions and indications  
12 that other languages have been started, but then we  
13 hear that they have been stopped again so I am not  
14 sure that we have anything for you on other  
15 languages at this point, other than that the Greeks  
16 hopes to be finished in 2003 with their  
17 translation.

18 All supporting documents that come with  
19 MedDRA, the user's manual, intro. guide, "what's  
20 new document," are also provided in translation to  
21 go with the distributed translation set.

22 [Slide]

1 MedDRA term selection--this is a plug for  
2 ICH. The MSSO provides support to the working  
3 group that helped create the ICH points to consider  
4 document for the use of MedDRA. It is posted on  
5 our website as well as the ICH website as of the  
6 meeting in September. The document was updated to  
7 deal with Version 5.0 of MedDRA which was the  
8 current version at that time.

9 [Slide]

10 Currently we are facing the near release  
11 of MedDRA 6.0 in early March. We have about 60  
12 proposed complex changes. After review and  
13 comment, that was whittled down to 12, which was  
14 then posted again on the website for public  
15 comment. Based on the comments that came back from  
16 the subscribers, the implementation is ongoing  
17 right now to get ready for the March release.

18 We have also received direction from the  
19 management board to look at modified terms within  
20 MedDRA for at least aggravated, exacerbated and  
21 worsened for this release. The issue here is  
22 larger than what we can deal with actually. It

1 involves E2B being reopened and talking about  
2 modified field indicators. Most of the terms in  
3 MedDRA have multiple modifiers and there is a  
4 desire not to allow MedDRA to exponentially grow.  
5 So, if you have a disorder, you could have a  
6 disorder aggravated; you could have a disorder  
7 chronic; you could have a family history of this  
8 disorder.

9           So, EFPIA has put together a white paper  
10 that was also presented to the ICH and that is why  
11 they agreed to reopen the E2B committee to look at  
12 this, and also some other issues on harmonization.  
13 But for now, we have reviewed the PT levels for  
14 these three term modifiers to verify if there is a  
15 clear indication that there is no unique medical  
16 concept between it and the non-modified version.

17           Also, EMEA has put out a requirement for  
18 the use of MedDRA for the coding of investigator  
19 terms in E2B for their filings in Europe. We have  
20 received listings from both pharmaceutical  
21 companies as well as FP in Europe and we are in the  
22 process of implementing many of them. Again, the

1 clean-up of British/American spelling is going  
2 forward.

3 [Slide]

4 This is just a question, again based on  
5 client feedback, the subscriber base, about the  
6 growth of MedDRA. MedDRA itself will be saying  
7 they did X thousands of changes per release. The  
8 reality is that over the first four years of  
9 MedDRA's use there have only been 4000 terms added  
10 to MedDRA. There have been 20,000 changes to  
11 MedDRA but only 4000 new terms. MedDRA will  
12 continue to grow in spite of the stabilization  
13 effort because of things like the requirement to  
14 add investigator terms; the requirement to deal  
15 with some other things coming down the line here.  
16 Also, the management board has requested  
17 that we do more actively to increase transparency  
18 of our process. So, we are in the process of  
19 augmenting our websites, more user groups. Right  
20 now we really only have one per region. There are  
21 several unofficial user groups that are going on  
22 through PhRMA, not through PhRMA but independently

1 and also through EFPIA. But we will also be  
2 sponsoring more MedDRA MSSO sponsored users.

3 The bottom line bullet here is NOS,  
4 modified terms and SSCs, again, there are more  
5 indications of issues still to be resolved, and  
6 once they are resolved they could impact the growth  
7 of MedDRA one way or the other, depending upon the  
8 management board's decision.

9 [Slide]

10 The current issue that is probably being  
11 talked about is the special search categories that  
12 were viewed, when they were created by the original  
13 expert working groups of ICH, as a means of doing  
14 data analysis of MedDRA-coded terms. But the  
15 comments here are from users as to why they don't  
16 use them: "They are too broad." "They are  
17 incomplete." The companies just build their own  
18 type of thing.

19 Back in the beginning of 2002, the MSSO  
20 itself took a look at the MedDRA and felt that  
21 there was a lack of a way of easily doing analysis  
22 using MedDRA. So, the MSSO created a proposal to

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1 the management board, which is being reviewed,  
2 called the creation of MedDRA analytical groupings,  
3 which is taking the concept of the SSCs but adding  
4 a hierarchy to it and making them more specific and  
5 not so broad. I will have an example of that  
6 coming up.

7 In proposing this and formulating this  
8 proposal, we talked about it at many of our user  
9 groups; we talked about it at several conferences;  
10 and we have also talked about it with individuals  
11 in industry. Some of those individuals in industry  
12 and CIOMS think this is a great idea too and CIOMS  
13 now has an initiative to create what they are  
14 calling special search queries which--a funny  
15 thing--almost matches word for word ours. But we  
16 have been participating in the past two CIOMS  
17 meetings as invited guests to work out a  
18 relationship of how the MSSO group and the CIOMS  
19 group can work together to produce a single product  
20 for everybody which we think, and they think, is  
21 the proper thing to do, and not create disparate  
22 products that would add to confusion down the line.

1 [Slide]

2 This is just an idea of what is in the  
3 SSCs now as far as definitions of what we are  
4 calling the MedDRA analytical groupings.

5 [Slide]

6 This is a listing of the proposed MedDRA  
7 MAGs that we have developed already, the ones in  
8 red, QT prolongation being one of them. Again,  
9 when we went to the CIOMS meetings, their list  
10 almost matches ours about 80 percent. They are  
11 working on the same topics we are. So, we are  
12 following forward on that.

13 [Slide]

14 This, again, is just to explain what I  
15 meant by the hierarchy. I was going fast because I  
16 was told I only had 15 minutes to talk and I wanted  
17 to be able to spend a little bit of time on this  
18 slide. If you were to try to do some analysis and  
19 you wanted to go to the blood lymphatic system to  
20 look at a specific issue, you could do a very broad  
21 scope query of bone marrow toxicity, or you could  
22 go down through the MAG hierarchy to look at the



1 thrombocytopenia, the leukopenia, or you may want  
2 to go even further down to granulocytosis type of  
3 query. So, you can have a very broad scope or a  
4 narrow scope. You can pick and choose how you want  
5 to use it for what type of analysis you need to do.

6 This is just a concept to help people  
7 understand what we are talking about when we are  
8 talking about analytical groupings and structure.  
9 It would not interfere with the basic MedDRA that  
10 is there. The basic MedDRA, based on feedback,  
11 seems to be in pretty good shape as far as doing  
12 data coding. When you want to find a term to code  
13 it, it is there. It is trying to take the term  
14 from here, and here, and here and pull it together  
15 and then produce some analytical results where  
16 there is a problem. Even NCI has created a whole  
17 set of neoplasm queries to do that, to link neck  
18 and head; to link all the different organs that are  
19 dealing with squamous cell as opposed to the way  
20 they are laid out for MedDRA coding purposes where  
21 it is by system, organ, class or by, you know, a  
22 specific infection or whatever.

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1           That is the end of my quick speech. Thank  
2 you. Any questions? Yes, sir?

3           UMEN: We have been involved in preparing  
4 new drug applications, and one of the efforts of  
5 any new drug application is to get to the point of  
6 putting a label, a package insert, if you will, in  
7 the United States summary of product  
8 characteristics, in Europe and so on.

9           Many companies are now moving to using  
10 MedDRA in the pre-approval stages for their  
11 clinical trials as a method of coding adverse  
12 events. The transition from adverse events  
13 collected and coded under MedDRA to a package  
14 insert for purposes of labeling brings up some of  
15 the challenges that the special service categories  
16 or the MAGs begin to deal with. But MedDRA just is  
17 very problematic for use in getting to labeling  
18 even though for coding it has great value. The  
19 ultimate use of those codes is to enable analyses,  
20 at least in part as far as I see it, and to get the  
21 labeling.

22           I think the agency needs to coordinate its

1 thinking and its contribution to ICH for the  
2 challenge that MedDRA is presenting in getting to  
3 labeling terms in an NDA for the initial label and  
4 which also represents challenges for labeling  
5 updates.

6 REVELLE: I assume you are not waiting for  
7 a comment back; you are just making a statement.

8 UMEN: You haven't answered.

9 REVELLE: No, there is no answer. I have  
10 talked to people that have been involved in the  
11 original expert working groups in the early '90s,  
12 and they are split too as to whether you should be  
13 able to roll up things in MedDRA or easily extract  
14 them from MedDRA, and then you get the others,  
15 diametrically opposed, who say a label is a  
16 negotiated item between you and the regulator and  
17 it is like God's given right and it should not be  
18 tampered with by government. I have not heard of  
19 any requirements in any of the three ICH regions  
20 about labeling and MedDRA.

21 UMEN: I know MedDRA is not a requirement  
22 per se for the label but it is a tool--

1 REVELLE: It is a tool that could be made  
2 use of.

3 UMEN: And it is quite challenging.

4 REVELLE: Really, when we talked about the  
5 MAGs and how they could be developed, there is the  
6 potential, as you point out too, that somewhere  
7 down the line there might be a semi-solution that  
8 would help with the labeling things, and the signal  
9 detections and all the other things. Anybody else  
10 have a question or comment?

11 MOLZON: Is this a question that could at  
12 least be presented at the MedDRA management board  
13 meeting?

14 REVELLE: The MedDRA management board has  
15 talked about labeling and even there, I mean, the  
16 MedDRA management board is made up of ICH people so  
17 you have FDA, JPMA, WHO, PhRMA, JPMA and they are  
18 split too. I mean, there are certain hot buttons  
19 and when the topic comes up everybody polarizes to  
20 opposite sides. There are other places where they  
21 come together just like, earlier, talking about  
22 some of the ICH initiatives that were being worked

1 and certain ones that were easily worked, and those  
2 that nobody can bring up yet and labeling has been  
3 that way. Yes, I attend the management board  
4 meeting as the director of the MSSO. Andrea Fete  
5 and Miles Braun, from CBER and CDER, represent FDA  
6 at the management board as well. Any other  
7 questions?

8 [No response]

9 Thank you very much.

10 ANQUEZ: Thank you very much. Thank you  
11 very much, everybody on the panel, for their  
12 terrific presentation. We have now reached maybe  
13 the most important part of the meeting, which is to  
14 hear from you all and welcome your input. We did  
15 receive a request from Dr. Mooney to do a  
16 presentation so I will turn the floor over to him.

17 MOLZON: Could you just introduce yourself  
18 for the transcript?

19 **Presentation and Comments**

20 MOONEY: Hi. I am Pat Mooney, from Eli  
21 Lilly Company. I am the team leader for the group  
22 at Lilly that has been working on the CTD

1 implementation at Lilly. As such, we have gone  
2 through and looked at all the summaries that have  
3 to be prepared for the CTD.

4 [Slide]

5 What we have here is a request for  
6 additional CTD guidance. Whether that guidance  
7 comes from ICH or from FDA, we would like to have  
8 additional guidance as to how to prepare some of  
9 the additional summaries. What we propose is a  
10 structured approach to integrated clinical  
11 summaries, and by integrated clinical summaries we  
12 include the integrated safety summary and efficacy  
13 summary that we already prepare for the FDA as one  
14 of those kind of integrated clinical  
15 summaries/analyses, and also integrated with that  
16 structural approach, the individual study reports  
17 because some elements of the study reports could  
18 also be integrated into the structured approach.

19 We would like to avoid building in  
20 unnecessary redundancy in the data analyses in the  
21 clinical overview summary, integrated summary of  
22 effectiveness and integrated summary of safety. A

1 lot of the data elements, as you will see, are the  
2 same and it doesn't make sense to keep saying the  
3 same thing over, and over, and over again in the  
4 different documents. We feel like this would  
5 provide the reviewers a framework for the region  
6 specific safety and effectiveness reviews. It does  
7 not mean they would all review their dossiers the  
8 same way but there would be a framework on which  
9 they could hang their review process.

10 [Slide]

11 I did not provide an actual pyramid here  
12 but we view this, as Justina did earlier, that this  
13 is really a pyramid of summaries and then getting  
14 down into the data. These are quotes directly from  
15 the guidances that exist:

16 The clinical overview is intended to  
17 provide a critical analysis of the clinical data in  
18 the Common Technical Document.

19 The summary, the CS, is intended to  
20 provide a detailed, factual summarization of the  
21 clinical information in the CTD.

22 The ISE, the integrated summary of

1 effectiveness, should provide an integrated summary  
2 of the data demonstrating substantial evidence of  
3 effectiveness for each claimed indication.

4 The ISS, the integrated summary of safety,  
5 is, in part, simply a summation of data from  
6 individual studies and, in part, a new analysis.  
7 We understand that but it goes beyond what can be  
8 done with individual studies.

9 [Slide]

10 At Lilly, we have gone through this  
11 process of looking at the ISS/ISE and the CS, as  
12 well as the CO, clinical overview to see how they  
13 compare and we have actually mapped the different  
14 sections of the CS, the CO, the ISS and the ISE to  
15 see how the different elements correlate. We think  
16 that there is a very large overlap between the ISS  
17 and ISE and the clinical summary.

18 Now, the size of this overlap, in the  
19 first part of the slide, is fairly general but what  
20 we see is that there is actually more overlap there  
21 than what we are led to believe sometimes in some  
22 of the things that we hear. In particular the ISE,



1 we feel that it is pretty much covered by the  
2 elements of the efficacy summary within the CS.  
3 For the ISS, most of the data elements and data  
4 integrated analyses for that are also included in  
5 the CS and the safety summary of the CS, although  
6 dropouts aren't really covered as well in the CS as  
7 they would be by the ISS.

8 [Slide]

9 Having said that, here is an example of a  
10 document that we have prepared. We go by the table  
11 of contents from the 1988 guidance from FDA and  
12 correlate that with the actual content of that  
13 guidance versus the content of the CTD guidance for  
14 the safety and the efficacy summaries.

15 [Slide]

16 Now, proposed structure--like I said  
17 before, we feel that either ICH or FDA should  
18 provide clarity around the clinical summaries. We  
19 view that the current FDA advice on ISS has been a  
20 series of PowerPoint presentations and really isn't  
21 adequate to really tell us exactly what to do here  
22 in industry.

1           What we propose is almost a restatement of  
2 what is in the guidance already but we really would  
3 like to go beyond that. The clinical overview,  
4 section 2.5, is a detailed critical analysis and  
5 interpretation of the meaning of the efficacy and  
6 the safety data. That is basically what it said in  
7 the guidance. The clinical summary is an  
8 integrated factual analysis and presentation of the  
9 efficacy and safety data. It doesn't go into  
10 saying this is what it means; it just says these  
11 are the facts and these are the integrated facts  
12 across studies.

13           What would go into module 5, section  
14 5.3.5.3, which is a place to put the ISS and the  
15 ISE, for the ISE we would say that it is basically  
16 optional since it is basically covered by the  
17 efficacy section of the CS. However, if we need to  
18 discuss efficacy that didn't pan out, that is where  
19 we could put that or other analyses that might add  
20 hundreds or thousands of pages that we would not  
21 want to try to shoe-horn into the CS.

22           With the ISS, as I said, presentation of

1 specified additional and integrated analyses that  
2 is specified by either FDA as guidance or by ICH as  
3 "here's where you put this." Also, patient  
4 narratives and we know there is not enough room in  
5 the CS for all the patient narratives, and also  
6 special safety analyses that might be requested by  
7 the agency at the time of getting guidance prior to  
8 the submission, so like in a pre-NDA conference for  
9 example. There you go. Thank you.

10 MOLZON: I could add, as I mentioned in my  
11 presentation, that there is a series of questions  
12 and answers for the safety, efficacy, quality and  
13 electronic submission in general and we are in the  
14 process of discussing putting together a question  
15 and answer section specifically for the ISS and ISE  
16 because there is so much confusion.

17 MOONEY: And we will probably be  
18 contributing to that.

19 MOLZON: Right. So, I would like to  
20 actually take your presentation with me to ICH if  
21 you could e-mail it to me.

22 MOONEY: I will give you my copy.

sgg

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1           MOLZON: Okay. As I said before,  
2 originally we were going to rewrite the ISS and the  
3 ISE as a stand-alone document and then the PDUFA-3  
4 risk management topics overtook it. So, we are in  
5 the process of figuring out how to make all these  
6 things fit together.

7           MOONEY: I could also send you that actual  
8 document that I showed you one page of.

9           MOLZON: Yes, thank you very much.  
10 Because the more practical information we have, the  
11 better. Thank you.

12           MOONEY: Thank you.

13           UMEN: This subject has come up, as you  
14 know, multiple times. It has been at meetings you  
15 and I have participated in before at DIA. I think  
16 there is enough experience now amongst companies in  
17 writing ISS, ISE and now CTDs, including the  
18 summaries and the overviews, that we should perhaps  
19 contemplate either a session at the annual meeting,  
20 which we might have scheduled at DIA, or a special  
21 workshop, much like the one you had last week on  
22 QT, because this is a very hot topic and I think

1 you would get a lot more than can be handled in  
2 just an hour. There would be some real airing of  
3 the challenges and the overlaps that really bear on  
4 what the last presenter just discussed. It is a  
5 hot topic.

6           MOLZON: The slide presentations that Dr.  
7 Mooney mentioned were actually Dr. Temple's  
8 presentation at the last annual meeting in Chicago.  
9 As you said, now that people have more experience  
10 they basically have a better understanding of how  
11 this all fits together, and we really should take  
12 advantage of all that experience. When we were  
13 writing this, you know, it was twenty people or  
14 less in a room. We really need the practical  
15 experience to see how all this fits. What we are  
16 trying to do is not reopen the document but, with  
17 this question and answer system that we have  
18 established in ICH, to clarify some of the issues.  
19 Those questions represent consensus responses. So,  
20 in fact, hopefully, it would provide clarity on  
21 what the intent was of those documents.

22           But I think Bob Temple might also be

1 presenting this again at the DIA annual meeting in  
2 San Antonio. That, of course, is in June, right  
3 before July.

4 ANQUEZ: Thank you very much, Patrick, for  
5 that presentation and thank you all for your  
6 comments and questions.

7 MOLZON: You can either do it from here or  
8 there, whatever is easiest.

9 **Presentation and Comments**

10 UMEN: I am very happy to do it from here.  
11 Michael Umen, Michael Umen and Company. I made a  
12 submission for the docket to the agency earlier  
13 today and by e-mail earlier this week.

14 I speak on behalf of Michael Umen and  
15 Company. We are a private company, over twenty  
16 years old, dedicated to producing drug documents  
17 for use in the registration of human  
18 pharmaceuticals.

19 I come here today because I think it is  
20 important at this stage to make the agency aware,  
21 and certainly the public including all the involved  
22 constituencies, that just like drugs are subject to

1 patents and the patent laws of the United States  
2 and other countries, and intellectual property laws  
3 in general, so are systems used in producing drug  
4 documents subject to U.S. patents and patents in  
5 other countries of the world. I am aware of four  
6 such patents. We are the patentees. The numbers  
7 of those patents, for the record, are 5-734-883;  
8 another is 5-963-967; a third is 6-205-455; and,  
9 finally, 6-505-218, the last of which was just  
10 awarded about two weeks ago.

11 The reason I bring it to your attention is  
12 because the patents cover methods that are  
13 applicable to producing drug documents, including  
14 those covered by the eCTD. I am really very much  
15 of the opinion that our intellectual property  
16 rights and those of other inventors here should be  
17 respected, just as intellectual property rights are  
18 being respected by ICH in the context of the MSSO  
19 for MedDRA. So, I have submitted copies of our  
20 patents to the public record.

21 Just so you are aware, patentees are  
22 afforded the right to exclude others from making,

1 using, offering for sale or selling the patented  
2 claims in the United States for U.S. patents, and  
3 similarly in other parts of the world. That  
4 includes patents that claim drug document  
5 production systems. I would not want to see a  
6 situation arise where legal action has to be  
7 brought to stop companies from producing the drug  
8 documents that go into their next submission, or  
9 stop FDA from reviewing an NDA or BLA simply  
10 because the agency is using a system that infringes  
11 a valid U.S. patent.

12 So, I bring it to your attention. I ask  
13 the agency to look carefully at this. I wish to  
14 notify the public that these patents exist and  
15 respectfully request that our intellectual property  
16 rights be respected here. Thank you.

17 MOLZON: Michael, what I am going to do  
18 with the patent you gave me is introduce it to the  
19 ICH steering committee so everyone is aware and we  
20 can, you know, determine next steps.

21 UMEN: Thank you.

22 ANQUEZ: Thank you, Michael. Any



1 questions or requests to speak? If not, I think we  
2 will bring the meeting to a close and, once again,  
3 I would like to thank all of you for coming here in  
4 spite of the weather to give us your input. It is  
5 very important. We value it. Thank you very much.

6 [Whereupon, at 1:20 p.m., the proceedings  
7 were adjourned.]

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## ***C E R T I F I C A T E***

I, **ALICE TOIGO**, the Official Court Reporter for Miller Reporting Company, Inc., hereby certify that I recorded the foregoing proceedings; that the proceedings have been reduced to typewriting by me, or under my direction and that the foregoing transcript is a correct and accurate record of the proceedings to the best of my knowledge, ability and belief.



Alice Toigo

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